

Implementing AI Techniques in Research



4:00 PM

S P E A K E R

Dr. Ammar Isam Edress

Asst. Prof. in Applied Mathematics

Vice Dean of Technical Collage of Petroleum and Minerals Science - Zakho

Head of Petroleum Geology Department

PhD in Applied Mathematics, University of Exeter, UK

MSc in Pure Mathematics, University of Mosul, Iraq

BSc in Mathematics, University of Mosul, Iraq

Ammar.isam@dpu.edu.krd

07504133995

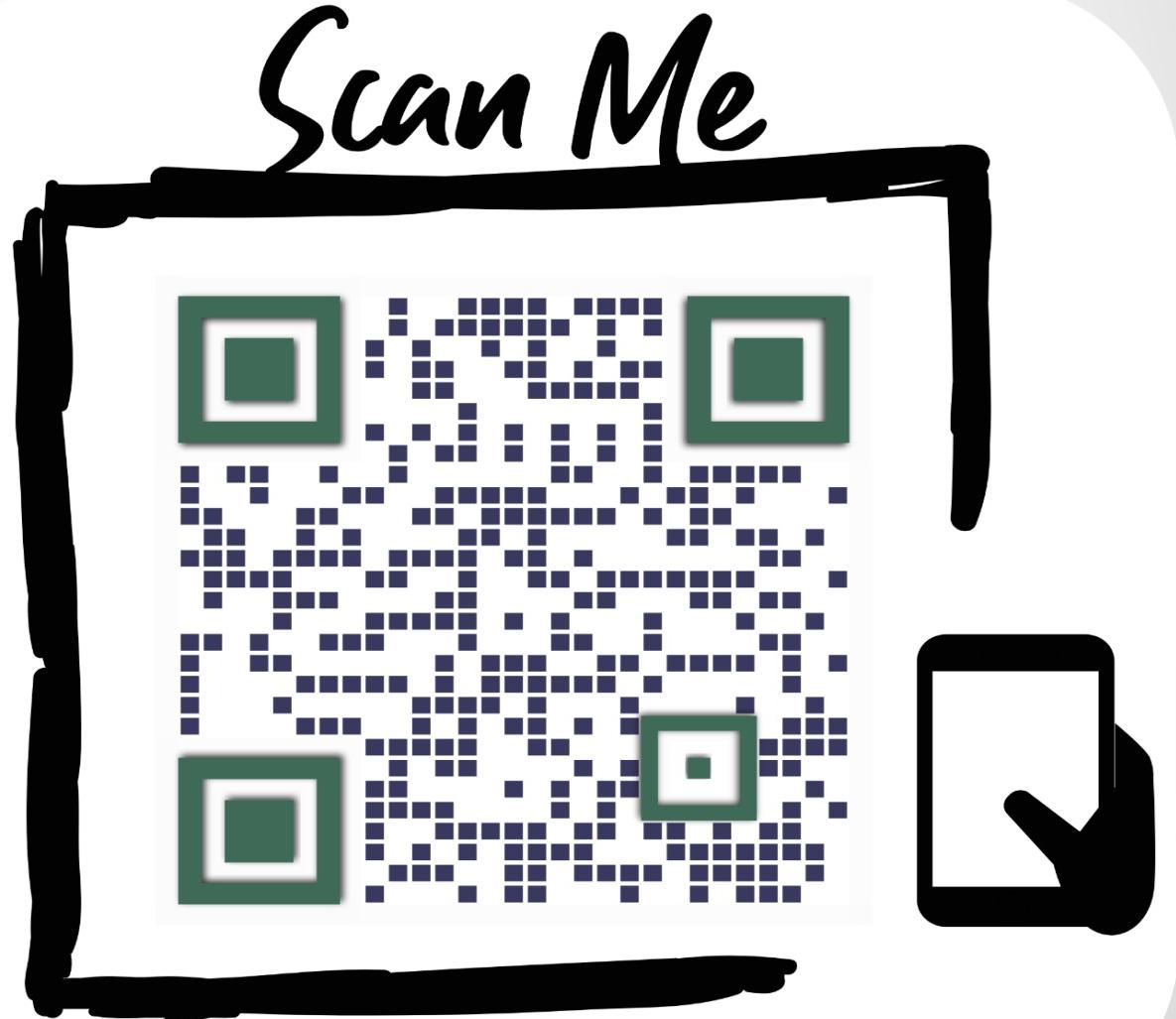


Agenda





Register your details to receive
your certificate ..



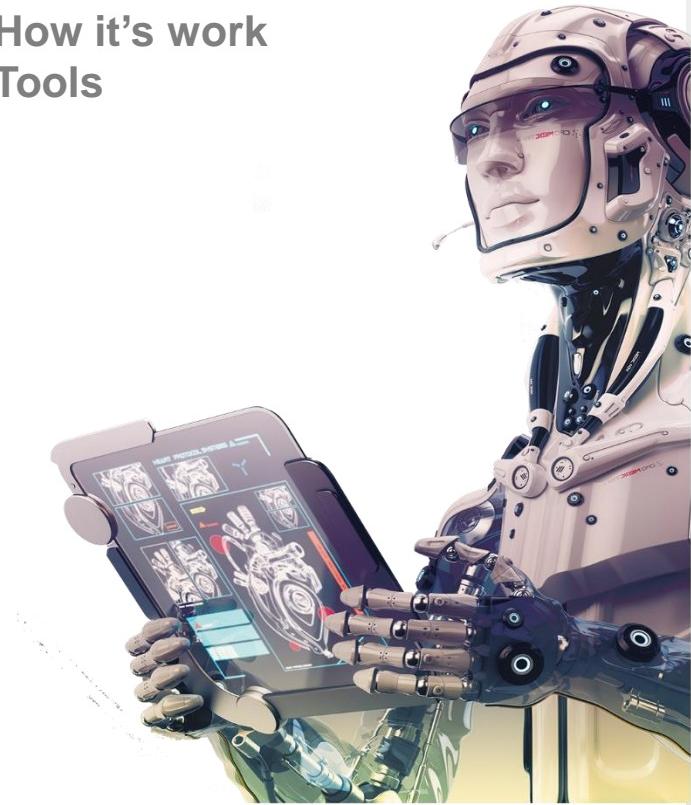
Intro to Artificial Intelligent



Intro & tools

This section to be focused on the:

- What is AI
- How it's work
- Tools



A large, white, sans-serif font "AI" logo. The letter "I" has a glowing, translucent purple and blue sphere at its top, emitting a soft glow.

What is Artificial Intelligence?

Artificial intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think like humans and mimic their actions.

(Jake Frankenfield, 2002)

GAME OVER: KASPAROV AND THE MACHINE

1997

Reactive Machines



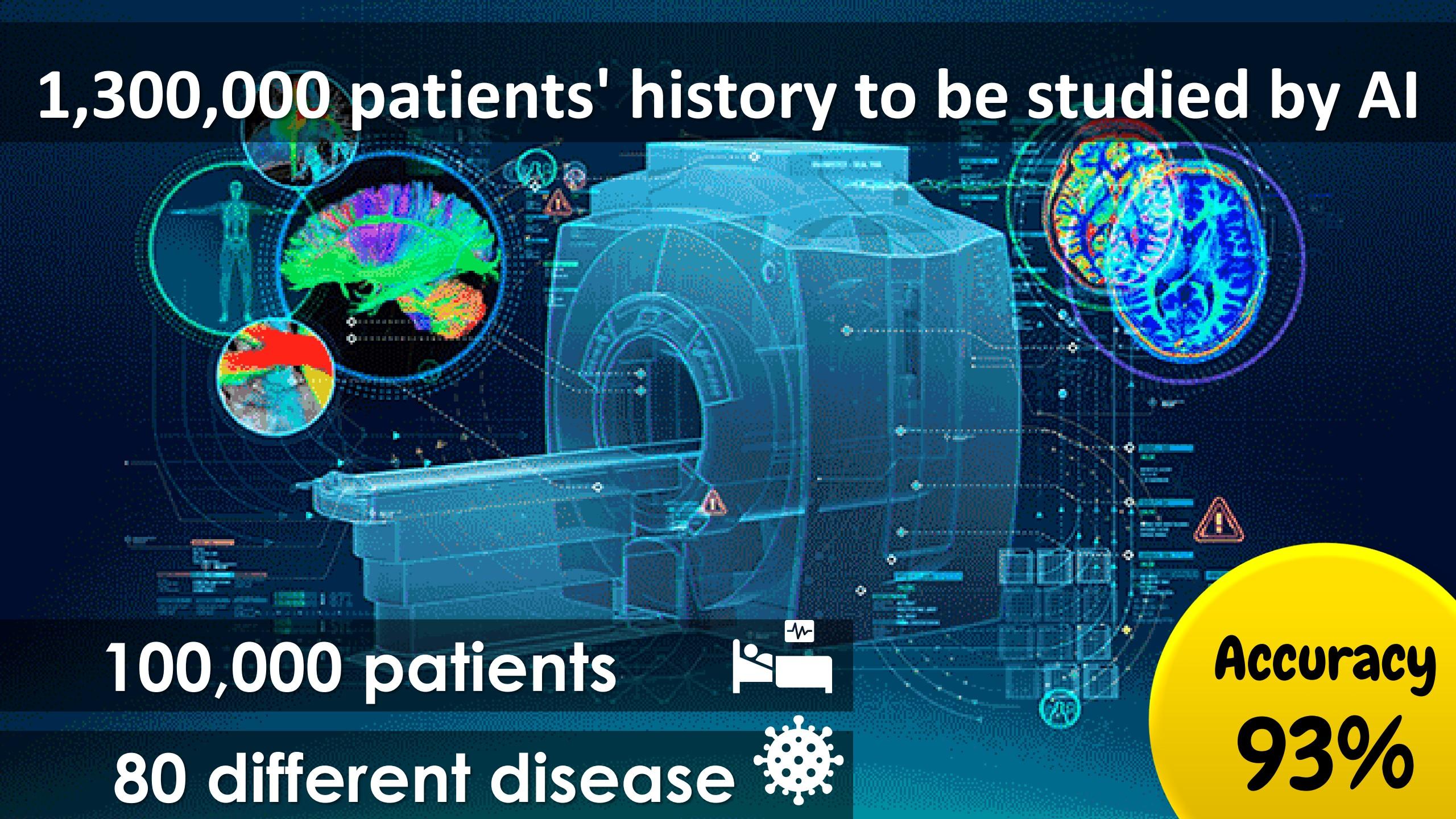
To watch the full story: www.imdb.com/title/tt0379296/?ref_=vp_close

A doctor wearing blue scrubs and a stethoscope around their neck is using a tablet computer. The screen of the tablet displays a futuristic medical interface with various icons related to health and medicine, such as a heart rate monitor, a battery, and a cross. The background is dark, suggesting a hospital or medical setting.

Deep Patient

Future sickness prediction

1,300,000 patients' history to be studied by AI



100,000 patients



80 different disease



Accuracy
93%



Google DeepMind

Cancer's X-Ray diagnosing

Are agree with this statement?

The AI will replace practical jobs but not creative writing and art jobs





Jason Allen



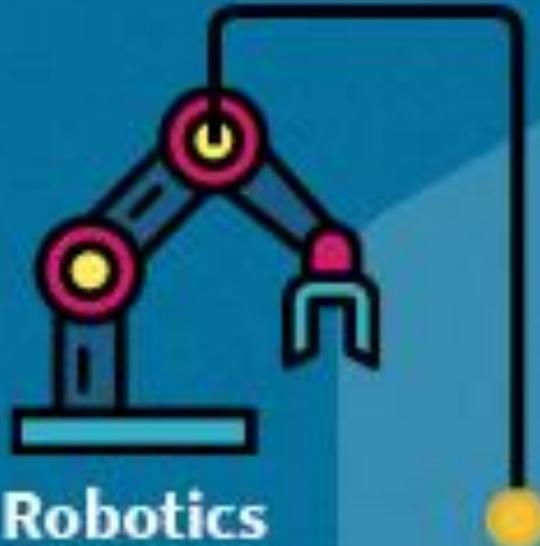
AI Art Generator

Create amazing artworks using the power of Artificial Intelligence



<https://creator.nightcafe.studio/>

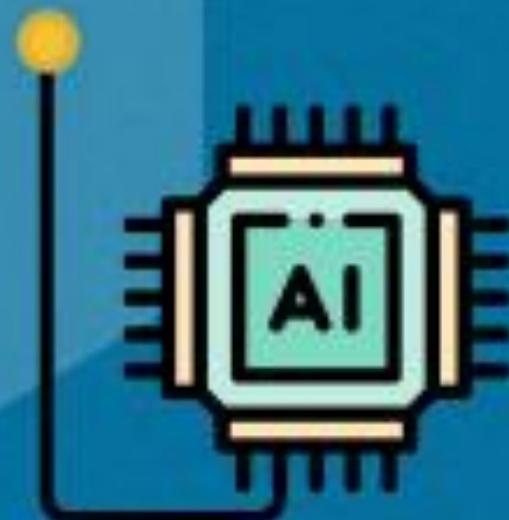




Programmed to do
Low level interaction
Only as smart as program



Programmed to think
Social Interaction
Learns



Artificial Intelligence

What are the Applications of Artificial Intelligence?

1. E-Commerce
2. Education
3. Lifestyle
4. Navigation
5. Robotics
6. Human Resource
7. Healthcare



8. Agriculture
 9. Gaming
 10. Automobiles
 11. Social Media
 12. Marketing
 13. Finance
- And more..

AI tools in Pictures

1. Photo Auto Generated
2. Enhancing low resolution image
3. Removing an image background
4. Deep Fake



Do you know those people?

Ex.1: Photo Auto
Generated



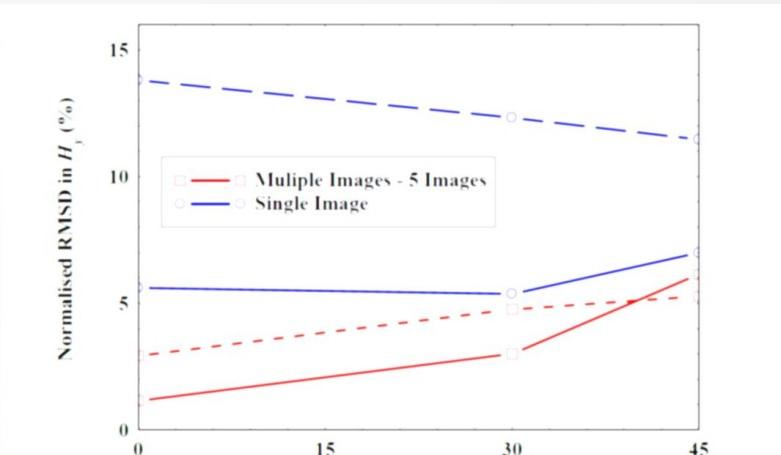
Ex2: Enhancing low resolution image



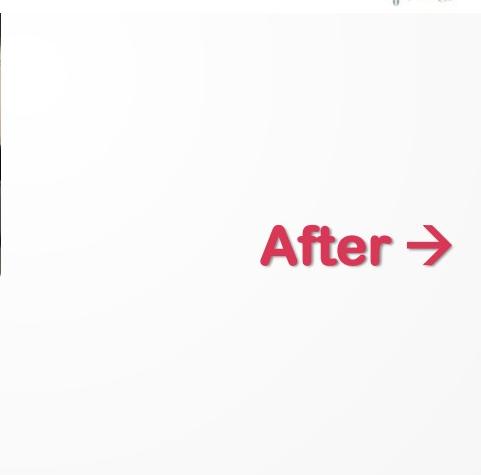
Before



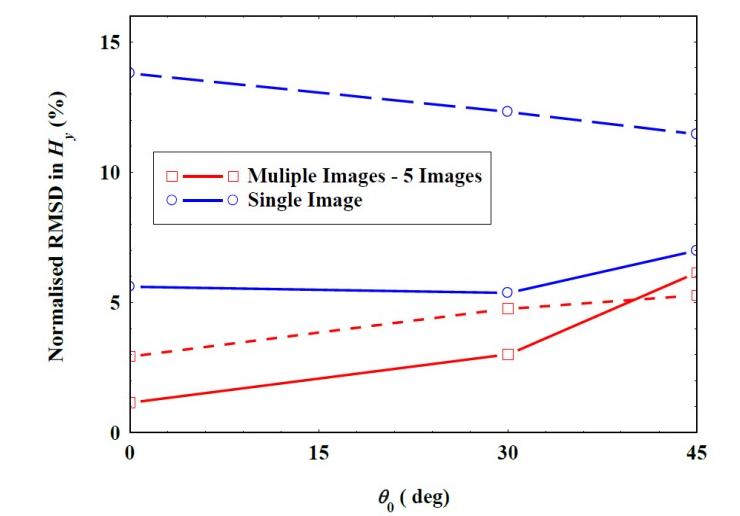
After



← Before



After →



Ex3: Remove Background of an image



Before



After



Remove Background online: www.remove.bg

Deepfake

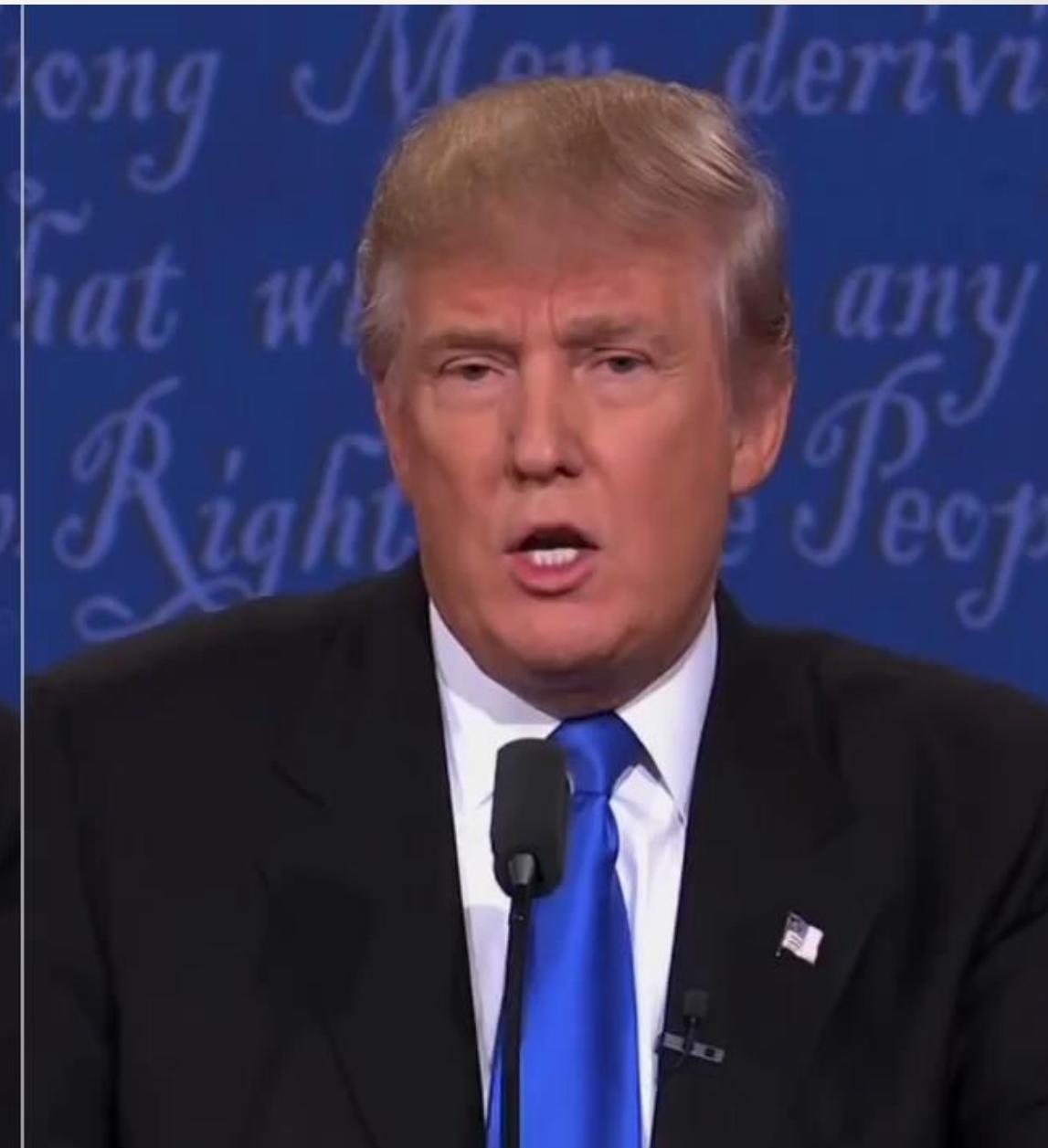
Use deep learning AI to replace the likeness of one person with another in video and other digital media.



Ex: deepfakesweb.com/ OR hoodem.com/product/create-your-deepfake/

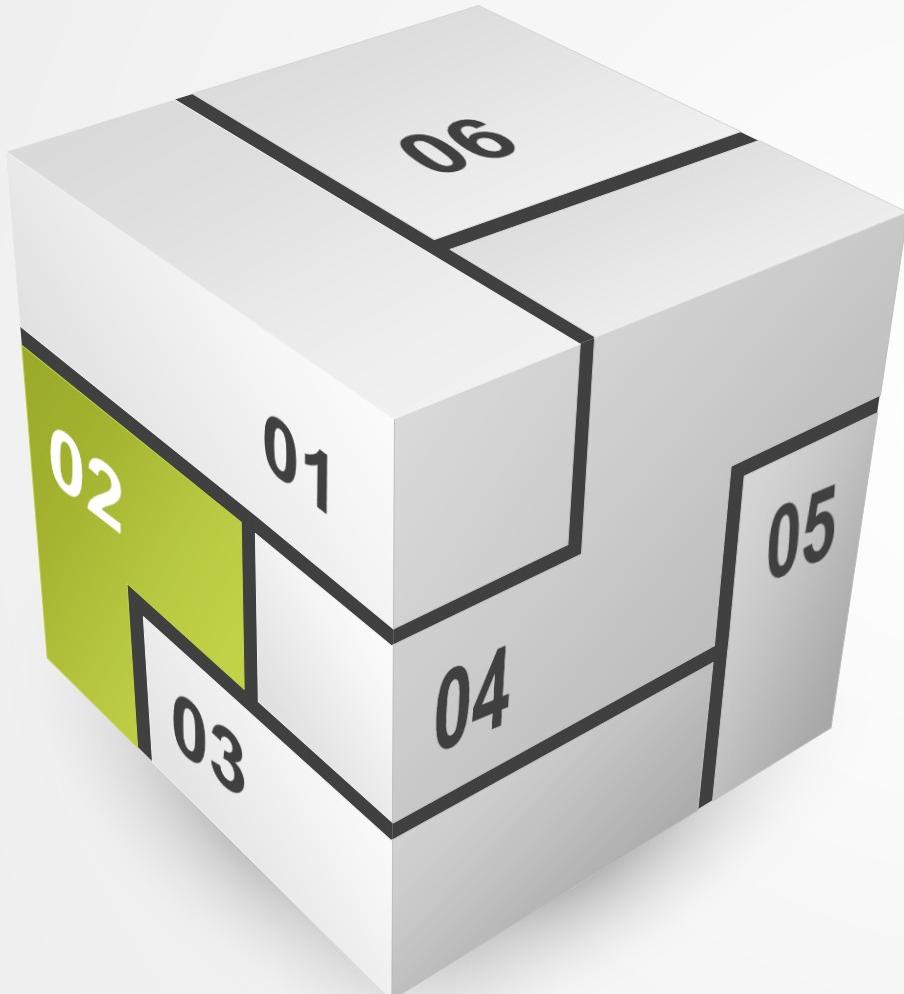


Fake Video: Mr. Trump-Been



Original Video: D. Trump

AI and Academic Writing



AI & Academic Writing

This section to be focused on the:

- Definition of the AW
- AI tools for AW
- Tools



Academic writing

Academic writing is formal and impersonal, aimed at scholars.

OR

Writing which communicates ideas, information and research to wider academic community

Academic writing uses specialized terminology. It requires citations and a list of sources and should be formal and objective.



Academic writing

The typical writing features of academic writing include the following:

- Use of formal language
- No contractions (*abbreviation*)
- Use of the third-person
- Avoidance of interrogative (*questioning*) statements.
- Avoidance of exaggerations (*overstate*) or hyperboles
- Avoidance of sweeping generalization
- Clear, concise, and no repetitions.



AI and Academic writing

- 1. Brainstorming**
- 2. Essay's writing**
- 3. Proofreading**
- 4. Writing with me ..**
- 5. Hemingway**
- 6. Ginger**
- 7. Katteb**



1. Brainstorming

The screenshot shows the homepage of [AlsoAsked.com](https://alsoasked.com/). The top navigation bar includes the logo, a sign-up button, and links for FAQs, Pricing, Help, Contact, and Login. A banner in the center reads "Find the questions people also ask" and features a search bar with placeholder text "e.g. 'keyword research'". Below the search bar are dropdown menus for language (English), location (United Kingdom), and search depth. The main content area highlights features like "unparalleled insight into search intent" and "geo-specific 'People Also Ask' questions". At the bottom, there's a product tour callout and a "Copy link" button.

AlsoAsked

0 free searches left until 3.11.2022

Sign-up

FAQs

Pricing

Help

Contact

Login

Find the questions people also ask

Enter a question, brand or search query

e.g. 'keyword research'

Or upload CSV

Search

English

United Kingdom

Standard search depth

Get unparalleled insight into search intent with live, geo-specific “People Also Ask” questions.

Map relationships between topics visually with generated graphs and export data in bulk CSVs.

AlsoAsked.com product tour

Copy link

<https://alsoasked.com/>

Brainstorming

Add your topic here



0 free searches left until 3.11.2022

Sign-up

FAQs

Pricing

Help

Contact

Login

Mathematical modelling

Or [upload CSV](#)

Search

English

United Kingdom

Standard search depth



Cached 03.10.2022 at 14.45p.m.

Zoom

100% ▾

csv png

You can download the
results as a png picture

Brainstorming



Brainstorming



2.Essaybot

A photograph of a young woman with long brown hair, wearing a grey long-sleeved shirt, sitting at a desk in a library. She is looking down at an open book and writing in a notebook with a blue pen. A silver laptop is open in front of her. Bookshelves filled with books are visible in the background.

Need Help Writing an Essay? We Help You
Finish Your Essay Today! No Plagiarism!

2. Essaybot

essaybot.com/main?noResume=1&step=topic

Bookmarks Duhok Polytechnic... Duhok Polytechnic... WhatsApp أخبار كرة القدم العرب... QuillBot | AI Paragraph... Enhancer for YouTu... Free download | Pet... Other bookmarks

EssayBot  Check Plagiarism Check Grammar Save Download My Essays My Account

1 Title 2 Paragraph 3 Start Writing X

Tell us your essay title or topic Start Writing

www.Essaybot.com

2. Essaybot



Please enter a descriptive essay title, or what you will write about

Magnetic Recording

(Optional) Please enter essay prompt or a brief introduction about what you are going to write

start with a prewritten paragraph on "Magnetic Recording"

Characterizing electrical, magnetic, mechanical, and morphological properties of materials are possible with the dedicated operating modes available with Stanford Advanced Materials. With this versatility, our customers can upscale their research capabilities and continue kindling the spirit of innovation and progress brought about by breakthrough nanoscale investigations.

Start with this

Writing is a great way to explore who you've become while also looking more deeply into your relationships. It's also a way of recording stories, remembering and rethinking the stories that linger in our minds, exploring their meaning or effects on us. It is even a way of re-writing our stories, transforming them into better stories, ones that we now understand the meaning behind. goal publicly has a way of helping us live up to it. We can do this together, encouraging each other along the way. I'd also love to see short excerpts- what was the best sentence you wrote today? I'll post a prompt to get you going if you need it, along with some of my writing each day. We can hold each other accountable to write motherhood during this month in which we also celebrate mothers (but if you need to do some mother trashing, no worries- not all

Please enter a descriptive essay title, or what you will write about

Magnetic Recording

(Optional) Please enter essay prompt or a brief introduction about what you are going to write

start with a prewritten paragraph on "Magnetic Recording"

Characterizing electrical, magnetic, mechanical, and morphological properties of materials are possible with the dedicated operating modes available with Stanford Advanced Materials. With this versatility, our customers can upscale their research capabilities and continue kindling the spirit of innovation and progress brought about by breakthrough nanoscale investigations.

Start with this

Writing is a great way to explore who you've become while also looking more deeply into your relationships. It's also a way of recording stories, remembering and rethinking the stories that linger in our minds, exploring their meaning or effects on us. It is even a way of re-writing our stories, transforming them into better stories, ones that we now understand the meaning behind. goal publicly has a way of helping us live up to it. We can do this together, encouraging each other along the way. I'd also love to see short excerpts- what was the best sentence you wrote today? I'll post a prompt to get you going if you need it, along with some of my writing each day. We can hold each other accountable to write motherhood during this month in which we also celebrate mothers (but if you need to do some mother trashing, no worries- not all

No Thanks. I will

Write on my own

Crisis Management

[Change Title](#) Autowriting

Situation management is the process by which the organisation deals with a turbulent and unforeseen event that threatens to injure the organisation or its stakeholders. This survey of crisis administration arose with the large-volumes of business and environmental disasters in the 1980s. It is believed to be the most significant activity in PR.

Since the 2008 business situation, the world economy has been at this doldrums, and every moment we believe we're out of this disruption, we see that we exist still at sea, struggling to stay afloat. EU seems on the brink of unfortunate devolution, and the world economy in general is about in the same levels as 2000. Would we always feel confident that we are falling to sustainable development? This can't be good, certainly. The term ``engineering`` has existed about since the 1600s, before thing like today's computers was. I think the compass was thought engineering back then, and when that sextant was invented it was ``high-tech." More recently, though even generations ago, the technologies of railway transformed the world economy from the mid-1800s, and cars soon after expanded that change farther into our system and culture. Broadcast radio and so TV and films turned into critical technologies as mass media fell into our lives from the early-to-mid twentieth century. These bikes went less and faster with calculators at the '70s and '80s, and the Internet from the '90s.



References

Word Count 240

[Paragraphs](#)[Sources & Citations](#) Search More Paragraphs

Most certainly, **Bulgaria's crisis** is also a crisis for the EU. Anger about corruption is palpable everywhere on the continent. **European** citizens are hard-working people and that is why they are outraged that wealthy people, politicians, and powerful corporations routinely evade taxes and offer/accept bribes. If EU institutions want to be respected, they need to show they are not mere bystanders who close their eyes to the inconvenient truth.

Digital currencies aside, **2017** also saw incredible growth in non-currency blockchain applications. Healthcare, supply chain **management**, voting, digital ID, certifications, gaming, media...the list goes on. Industry stakeholders are coming together to understand the true potential of how this technology can be used to transform processes.

If these statistics weren't disturbing enough, here's the real kicker: There's plenty of evidence that the teenage mental health **crisis** is directly tied to social media use. A **new study**, spearheaded by Twenge, shows that adolescents who spend more time on social media are more likely to report mental health issues, while teens who spend more time on

3. Grammarly



Grammarly stands with our friends, colleagues, and family in Ukraine, and with all people of Ukraine. [Learn more >](#)

Log in

Great Writing, Simplified

Compose bold, clear, mistake-free writing with Grammarly's new AI-powered desktop Windows app.

[Get Grammarly](#) It's free

<https://app.grammarly.com/>



Hi Jen,

I hope you're well. Can we catch up today? I'd really appreciate your input on my presentation for tomorrow's meeting. I'd especially love it, if you could double-check the sales numbers with me. There's a coffee in it for you!



3. Grammarly

The screenshot shows the Grammarly desktop application. At the top left is the Grammarly logo. The main menu includes "My Grammarly", "Trash", "Account", "Apps" (with a notification badge showing 3), and "Premium". A modal window titled "Using Grammarly for work?" offers to get Grammarly Business for the entire team, with a "Learn More >" button. At the bottom are "Support" and "Sign Out" options, along with the email address "amar.master1979@gmail.com".

Grammarly Apps



Grammarly for Windows

Grammarly for your desktop is your one-stop solution to get writing suggestions across a wide array of desktop apps and websites.

[Install](#)

Grammarly for Chrome

Grammarly's browser extensions offer writing suggestions in Google Docs and other sites across the web.

[Active](#)[Re-install](#)

Grammarly for iPhone and iPad

Write confidently and professionally across all your apps and websites with Grammarly's writing suggestions, anywhere you go.

[Install](#)

Grammarly for Android

Write clearly, confidently, and mistake-free across all your apps with your Grammarly Keyboard and personal writing assistant.

[Install](#)

3. Grammarly

X Close HIDE ASSISTANT >

My Grammarly

DOCUMENT

- + New document
- Upload file .docx, .odt, .rtf, .txt
- Download as .docx
- Print Ctrl+P

EDIT

- Undo Ctrl+Z
- Redo Ctrl+Y
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Select all Ctrl+A

Editor settings

ACCOUNT **FREE**

Ammar Isam
ammar.master1979@gmail.com

Diamond Upgrade to premium

Flag Language preference ▾

- American English ✓
- British English
- Canadian English
- Australian English

Subscription

Sign out

All suggestions

properties of Nanocomposites |



Great job!

Overall score
Text is too short >

Goals
Adjust goals >

All suggestions

Correctness ✓
Looking good

Clarity ✓
Very clear

Engagement
Nothing yet

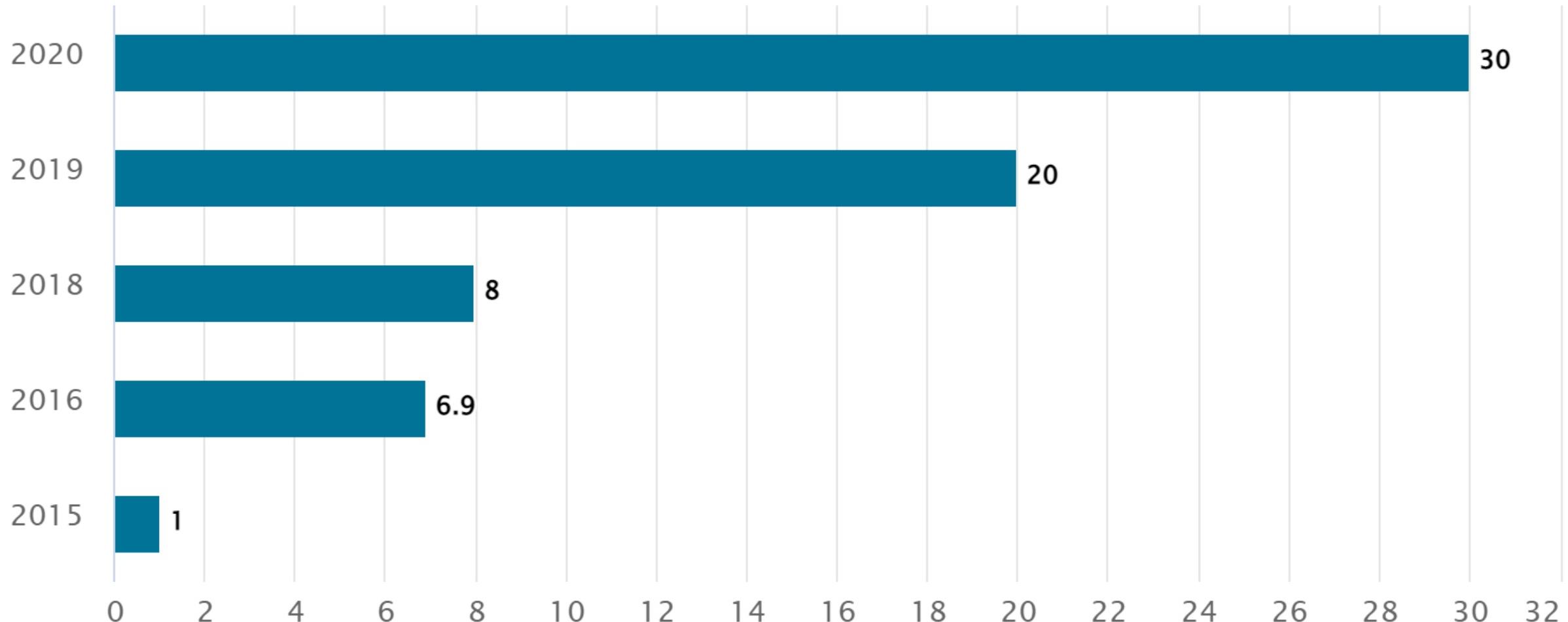
Delivery
Nothing yet

Get Expert Writing Help

Plagiarism

5 words ▾

Grammarly Average Daily Active Users from 2015 to 2020 (in million)





Use cases • Pricing • Resources • What's new • Start Ryting →

4.Rytr

A better, 10x faster way to write Facebook ads

Rytr is an AI writing assistant that helps you create high-quality content, in just a few seconds, at a fraction of the cost!

[Start Ryting →](#)

Free forever, upgrade as you scale!

2,000,000+

happy copywriters, marketers & entrepreneurs

4.9/5

satisfaction rating from 1000+ reviews on TrustPilot, G2 & more

10,000,000+ hours

and \$200 million+ saved in content writing so far



<https://rytr.me/>

4. Rytr

Account

Hello 

Please login or create your Rytr account

 Continue with Google

 Continue with Facebook

 Continue with LinkedIn

 Continue with Email

By signing up you acknowledge that content is generated by AI and agree to our [terms of use](#) & [privacy policy](#).


"I used to spend hours writing creative copy, but now all I do is tell Rytr what I need and it writes everything for me. It's the ultimate AI content writer, and a must-have tool for bloggers, marketers, & entrepreneurs."

Meri Pipenbacher
Founder, Vidly

4. Rytr

The screenshot shows the Rytr AI writing tool interface. On the left, there's a sidebar with language and tone selection (Arabic, Formal), a dropdown for 'Choose use case' (Job Description), and a 'Job role' input field containing 'رئيس قسم'. Below these are settings for 'Number of variants' (1 variant) and 'Creativity level' (Optimal). At the bottom is a yellow button labeled 'Ryte for me →'. The main area is titled 'New document' and contains a text editor with a toolbar. The text in the editor is a template for a job description:

رئيس القسم هو المسؤول عن العمليات اليومية للقسم. وهذا يشمل ضمان أن يكون للادارة بيئة عمل فعالة وكفؤة ، وإدارة الموظفين في القسم ، والتأكد من أن جميع الموظفين يفيون بأعباء العمل المطلوبة.

المسؤوليات:

- الحفاظ على بيئة عمل منتجة مع التركيز على الجودة والسلامة والكفاءة.
- إدارة جميع الموظفين داخل القسم.
- تأكد من تلبية الموظفين لأعباء العمل المطلوبة.
- خلق ثقافة المساءلة مع مؤشرات الأداء الرئيسية القابلة لقياس لجميع الموظفين.
- تأكد من الوفاء بجميع المواعيد النهائية في الوقت المحدد أو مبكراً.
- تقديم التغذية الراجعة للادارة حول طرق تحسين العمليات وبيانات العمل لتعزيز الإنتاجية والكفاءة.
- دعم مبادرات الشركة للنمو ، بما في ذلك على سبيل المثال لا الحصر إعداد الميزانية والتنبؤ والتوظيف وتحطيم التعاقب.
- مراجعة التقارير الشهرية من الموظفين للتأكد من أن جودة العمل تصل إلى المعايير وأن المواعيد النهائية قد تم الوفاء بها أو تجاوزها في الوقت المحدد أو مبكراً

4. Rytr

The screenshot shows the Rytr AI writing tool interface. On the left, there's a sidebar with settings for language (us English), tone (Formal), use case (Email), key points (Apply for scholarship), variants (2 variants), and creativity level (Optimal). A large orange button at the bottom says "Ryte for me →". The main area is titled "New document" and contains two generated email snippets.

Subject: Scholarship Application

Hi {recipient name},

I hope this email finds you well. My name is {sender name} and I am a student at {school} in {city}. I am writing to you because I am interested in applying for the {scholarship title}.

I understand that only a limited number of positions are available and that competition is tough. But I hope that my application will be given due consideration as I truly believe that the scholarship will help me on my path to success.

I would love to hear back from you soon so that I can move forward with the process.

Best, {sender name}

—

Subject: Apply for scholarship

Hi,

I hope you are doing well. I am writing to you because I saw your {qualifications} on scholarship.org and I wanted to let you know that we are giving away a total of {\$1000} to 10 students this year. We have a range of scholarships available from \$500-\$1000 and all the scholarships are awarded based on merit, not financial need.

I hope you will consider applying for one of our scholarships and help us give back to the future generation of leaders!

All the best,

{sender name}



4.Rytr

The screenshot shows the Rytr AI writing tool interface. On the left, a sidebar contains various configuration options:

- Select language: us English
- Select tone: Formal
- Choose use case: Blog Section Writing
- Section topic: How to choose a suitable laptop for Engineering
- Section keywords: SSD, RAM, Brand, processor, OS
- Number of variants: 1 variant
- Creativity level: Optimal

The main area is titled "New document" and displays the following text:

Choosing a suitable laptop for engineering is not an easy task. With so many options available, it is important to know what you are looking for and what you need your laptop to do. Here are some of the key considerations that will help you find the right one for you.

- Processor: If you work with heavy software, a faster processor will be better suited to your needs. If not, then a slower processor will be sufficient and save on cost.
- RAM: More RAM means more multitasking capabilities and less lag time when working with large files or programs. You can't go wrong with 8GB of RAM if you want lots of power for running multiple programs at once or running heavy software like AutoCad or Photoshop without any slowdown in performance.
- Storage: A good rule of thumb is to get as much storage as possible since it's cheaper than upgrading in the future when it becomes necessary. SSD storage is faster than traditional hard drive

At the bottom, there is a large orange button labeled "Rytr for me →".

5

Hemingway

Editor

<https://hemingwayapp.com/>

Desktop App

Just Released!
Version 3.0!

Like 7.3K

Tweet

Hemingway App makes your writing bold and clear.

The app highlights lengthy, complex sentences and common errors; if you see a yellow sentence, shorten or split it. If you see a red highlight, your sentence is so dense and complicated that your readers will get lost trying to follow its meandering, splitting logic — try editing this sentence to remove the red.

You can utilize a shorter word in place of a purple one. Mouse over them for hints.

Adverbs and weakening phrases are helpfully shown in blue. Get rid of them and pick words with force, perhaps.

Phrases in green have been marked to show passive voice.

You can format your *text* with the toolbar.

Paste in something you're working on and edit away. Or, click the Write button and compose something new.

Hemingway
Editor

Readability

Grade 6

Good

Reading time: 00:00:31

Letters: 610

Characters: 757

Words: 133

Sentences: 11

Paragraphs: 7

Show Less ▲

2 adverbs, meeting the goal of 2 or fewer.

1 use of passive voice, meeting the goal of 2 or fewer.

1 phrase has a simpler alternative.

1 of 11 sentences is hard to read.

1 of 11 sentences is very hard to read.

GINGER

Grammar Checker Business Education Ginger API Pricing kyoksil@gmail.com

Grammar Checker Dialect US

Type or paste text here

0/600

Check text

Proofread the examples below:

- "I could'nt tell there friends"
- "They dont now were Tom went"
- "His much better then yesterday"

Grammar Rules

What is a verb?

What is an Adverb?

Irregular Verbs list

Commonly Confused words

Commonly Misspelled words

See all Grammar rules

More free ways to use Ginger

Ginger for Chrome

Ginger for Windows

Ginger for MS Word and Outlook

Ginger for iOS / Android

← Ads by Google Send feedback Why this ad? ⓘ

6- Ginger: Write with Confidence

مساعدك الذكي

أتاح الذكاء الاصطناعي للأشخاص كتابة مقالات باستخدام الكمبيوتر. يتم ذلك عن طريق إدخال كمية كبيرة من البيانات في الكمبيوتر أولاً. ثم يستخدم الكمبيوتر هذه البيانات لكتابة مقال عن الموضوع المختار. عادة ما تكون هذه المقالة ذات جودة عالية وستكون قادرة على اجتياز مدقق الانتهاء.

يتزايد استخدام الذكاء الاصطناعي (AI) لكتابة المقالات. يمكن للذكاء الاصطناعي تحليل البيانات وكتابة المقالات بشكل أسرع وأكثر دقة من البشر. مما يجعله أداة قيمة للشركات والمؤسسات الإخبارية. ومع ذلك، يشعر بعض الناس بالقلق من أن الذكاء الاصطناعي سيحل محل الكتاب البشريين، مما يؤدي إلى فقدان الوظائف.

يمكن استخدام الذكاء الاصطناعي في كتابة المقالات بدرجات متفاوتة من النحاج. غالباً ما تكون المقالات المكتوبة بواسطة الذكاء الاصطناعي، أقصر

اللغة 

العربية

عدد الإقتراحات

3 إقتراحات

اطلعني على فكرة المحتوى 

كتابة مقال عن طريق الذكاء الاصطناعي

اكتب

7 Katteb

<https://katteb.com/ar/>

4.5

 تقييم كاتب

96,257,477
 عدد الكلمات المكتوبة

63,558
 عدد مستخدمي كاتب

<https://www.genei.io/>

genei

Jobs

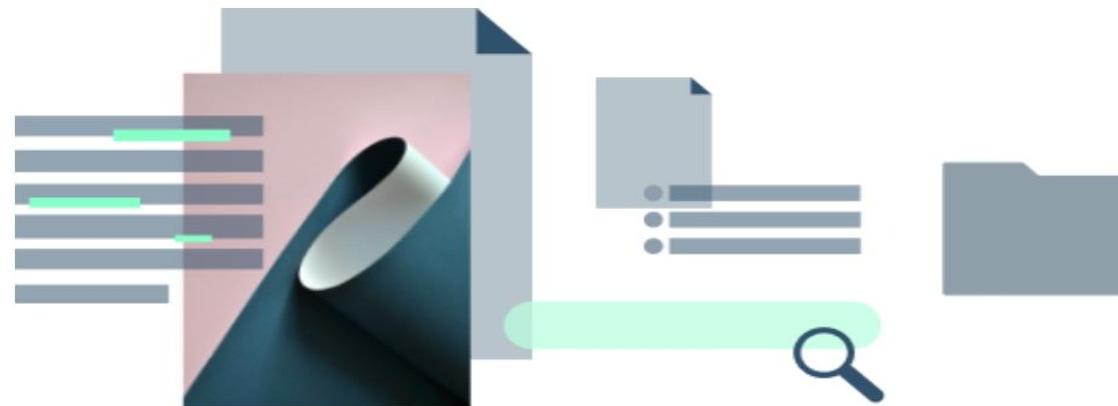
Pricing

Community

Use Cases ▾

Resources ▾

Login



Research faster with genei

Enter email address

Get started

14 day free trial

Cancel any time

Automatically summarise background reading and produce blogs, articles, and reports faster.

A screenshot of the genei platform's user interface. At the top, there are tabs for "Psychology Society" and search functions. Below the header, there are three main sections: "Create Resource", "Create Note", and "Create Folder". A project titled "Bystander intervention" is displayed, showing its content and structure. The interface includes a sidebar with navigation links like "Do the right thing! A study on social repr...", "Crowded minds: The implicit bystander e...", and "Search project".



Academic writing is hard.

Writefull's AI helps you write, paraphrase, copyedit, and more.

[Download for Overleaf](#)[Download for Word](#)

[students & researchers](#) [institutions](#) [publishers](#) [enterprise](#) [products](#) [widgets](#)

Copyedit with research-tailored AI

needs to be further evaluated - 100%

ACCEPT

need to be checked more - 0%

REJECT

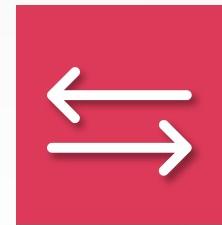
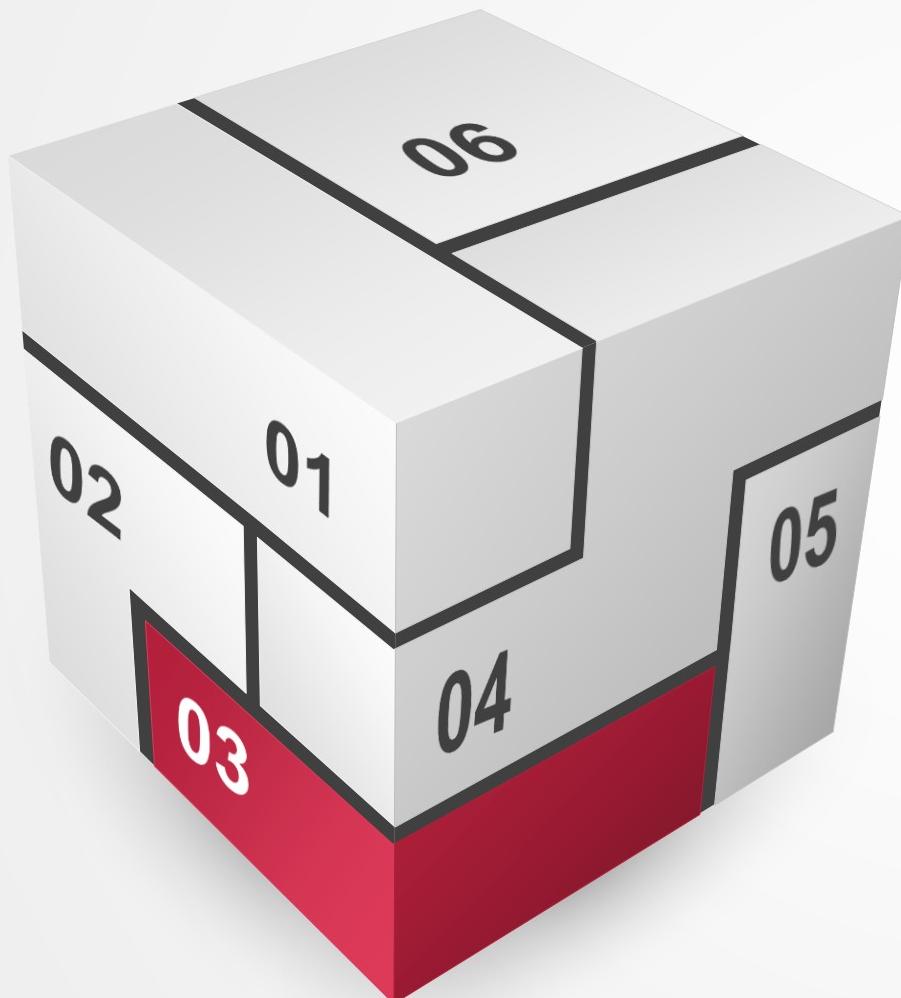
Although ~~study~~ **the study** has ~~no~~ **not** shown any lasting affects **effects**, the method ~~need to be checked more~~ **needs to be further evaluated**.

ACCEPT ALL

REJECT ALL

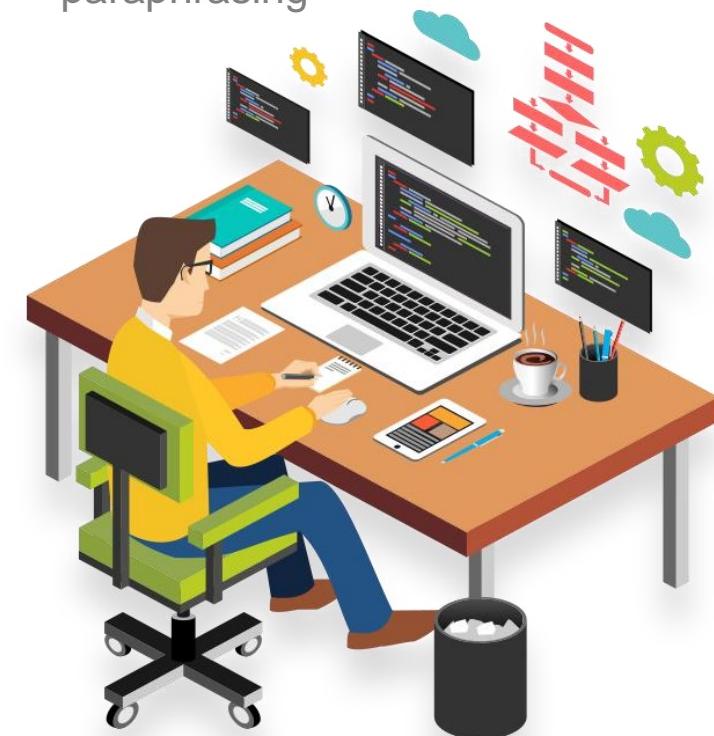
<https://www.writefull.com/>

AI & Paraphrasing Tools



AI & Paraphrasing Tools

This section will list number of the available tools for paraphrasing



What does Paraphrase refers to?



Cambridge
Dictionary

Dictionary

Translate

Grammar

Thesaurus

+Plus



paraphrase



T



paraphrase

verb [l or T]

UK /'pær.ə.freɪz/ US /'per.ə.freɪz/



to repeat something written or spoken using different words, often in a humorous form or in a simpler and shorter form that makes the original meaning clearer

Compare

rephrase

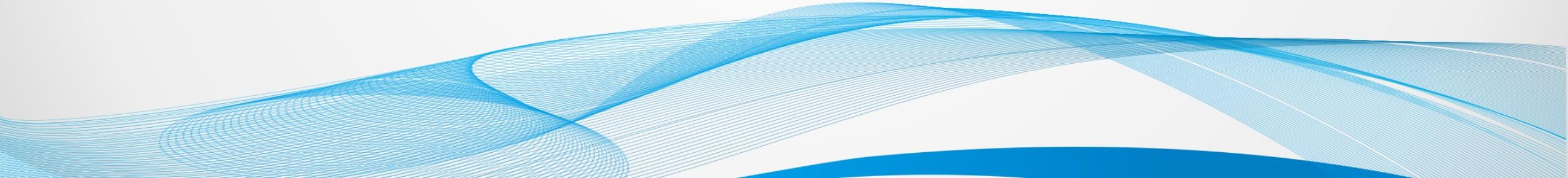
reword

A successful paraphrase

Is your own explanation or interpretation of another person's ideas. Paraphrasing in academic writing is an effective way to restate, condense, or clarify another author's ideas while also providing credibility to your own argument or analysis.

While successful paraphrasing is essential for strong academic writing, unsuccessful paraphrasing can result in plagiarism.

Source: [Welden University](#)



AI and Paraphrasing Tools

- 1. Spinbot**
- 2. Quillbot**
- 3. Paraphrasing-tool**
- 4. Prepostseo**



1. Spinbot



SpinBot

Text Spinner

Paraphrasing Tool

<https://spinbot.com/>



Your text to rewrite...

Your rewritten text...



Aa

Ignore Words

0/10,000

Basic Spin

Advanced Paraphrase

Share

**Intelligent, Free Text
Rewriting Tool**

Have some fun with it! Discover how Spinbot can
enhance your writing within seconds.

2. Quillbot

<https://quillbot.com/>



QuillBot

Paraphraser

Upgrade to Premium

Standard Fluency Formal Simple Creative Expand Shorten Synonyms:

rewrite your text. Start by writing or pasting something here and click the Paraphrase button.

Try Sample Text Paste Text

Paraphrase

Paraphraser Grammar Checker Plagiarism Checker Co-Writer Summarizer Citation Generator QuillBot Premium Chrome Extension Word Extension Help Center Contact Us

3. Paraphrasing-tool

<https://paraphrasing-tool.com/>



The screenshot shows the homepage of Paraphrasing Tool. At the top center is the logo "Paraphrasing Tool" with the tagline "Paraphrase, Reward, Rewrite". Below the logo are two main input fields: "ENTER YOUR TEXT" on the left and "PARAPHRASED RESULT" on the right. The "ENTER YOUR TEXT" field contains placeholder text "Type or Paste Your Text Here.". Below this field are two buttons: "INCLUDE CAPITALIZED WORDS" (unchecked) and "0 of 10,000 Character Limit". At the bottom of this section are two large green buttons: "BASIC PARAPHRASE" and "ADVANCED PARAPHRASE". The "PARAPHRASED RESULT" field is currently empty and contains a placeholder message: "Confirm you are a human then click the 'Basic Paraphrase' button.". At the bottom of this field is a green "COPY TO CLIPBOARD" button.

4. Prepostseo

<https://www.prepostseo.com/>



Plagiarism Checker

DA Checker

Paraphrasing Tool

Summarizer

Premium Plans



Login

Register



Empowering **95+** Free Online Tools

ADVERTISEMENT

With Over 95 Online Tools, PREPOSTSEO Helping Millions of Webmasters,
Students, Teachers & SEO Experts Every Month.

Type to search.



Tools station



Plagiarism Checker



Article Rewriter



Paraphrasing Tool



Text Summarizer



Grammar Checker



Domain Authority Checker



Random Address Generator



1469 Guest Posting Sites



Google Indexer



Image to Text



Backlink Maker



Binary Translator

Plagiarism Checker

REPOSTSEO

Plagiarism Checker DA Checker Paraphrasing Tool Summarizer Get Premium

ADVERTISEMENT

Plagiarism Checker

To use this tool online, copy-paste text or select a file to upload. Next, click on the **Check Plagiarism** button to find the plagiarism percentage.

ADVERTISEMENT

Feedback

Welcome to our site, if you need help simply reply to this message, we are online and ready to help.

Customer Support just now

Write a reply..

Like Comment Smile

1

Article Rewriter

To use this Article Rewriter (article spinner), please copy and paste text in the input box below or select a file to upload, and then click on the **Rewrite Article** button.

ADVERTISEMENT

AI Mode No Ads No Captcha Increase word limit Go Pro

Simple Advanced Fluency Creative

Original Content Paraphrased Content

Write Your Text Here ...

Article Rewriter

Paraphrasing Tool

Paraphrasing Tool

To use this paraphrasing tool, please copy and paste text in the input box below or select a file to upload, and then click on the **Paraphrase** button.

ADVERTISEMENT

Summarizing Tool

Copy And paste your text below to summarize paragraph

ADVERTISEMENT

Show Bullets Show Sentence By Words By Percentage

Original Content	Summarized Content
Insert text here	

ADVERTISEMENT

Simple Advanced Fluency Creative 🎉

AI Mode No Ads No Captcha Increase word limit **Go Pro**



Summarizing Tool

Online Grammar Checker

Online Grammar Checker

To use grammar and punctuation checker, paste text into the text box. Click on Grammar Check button to correct english mistakes free.

8 errors found.

Resolve All

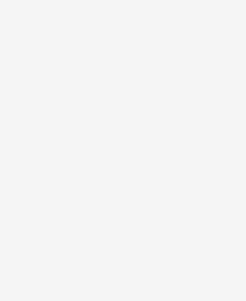
English

Paste your own text here and click the 'Check Grammar' button. Click the colored phrases for details on potential errors. or use this text too see an few of the problems that prepostseo can detectd. What do you thinks of grammar checkers? Please not that they are not perfect.

Image to Text Converter

To use prepostseo [Image to Text Converter](#), Paste Image Url in the input box given below or upload picture and click on **Submit** Button.

ADVERTISEMENT



Select File

Characters: 278

Check Grammar

Check Plagiarism

Share It → [f](#) [t](#) [in](#)

30 uploads

No Ads

No Captcha

3X Faster

Go Pro



Drag & Drop / (Ctrl+V)

+ browse files

Enter URL



Max. 3 images per submission

Upgrade to 30 images per submission

Image to Text Converter

More tools for writing and education

Writing & Education

[Plagiarism Checker](#)



[Word Counter](#)



[Grammar Checker](#)



[Article Re-writer](#)



[Plagiarism Comparison](#)



[Verify Backlinks](#)



[Page Comparison](#)



[Code to Text Ratio](#)



[Spell Checker](#)



[SEO Friendly URLs checker](#)



[Keywords / Total words](#)



[Keyword Density Checker](#)



[Text Compare](#)



[Tiny Text Generator](#)



[Reverse Image Search](#)



[Paraphrasing Tool](#)



[Readability Checker](#)



[Similar Page Checker](#)



[Small Text Generator](#)



[Image to Text](#)



[Line Counter](#)



[Diff Checker](#)



[Word Combiner](#)



[What is My IP?](#)



More tools for Domain and Website management

Domain Tools

Domain Authority Checker	Page Authority Checker	Moz Rank Checker
Bulk Authority Checker	Domain Age Checker	Domain Whois Checker
Domain Ip History	Reverse IP Domains	Reverse Whois Checker
XML sitemap Generator	Malware Checker	Alexa Rank Checker
Compare Alexa Rank	Backlinks Maker	Social Media Counter
Blog Search Tool	Broken Links Checker	Google PR Checker
Links Extractor		

Website Management Tool

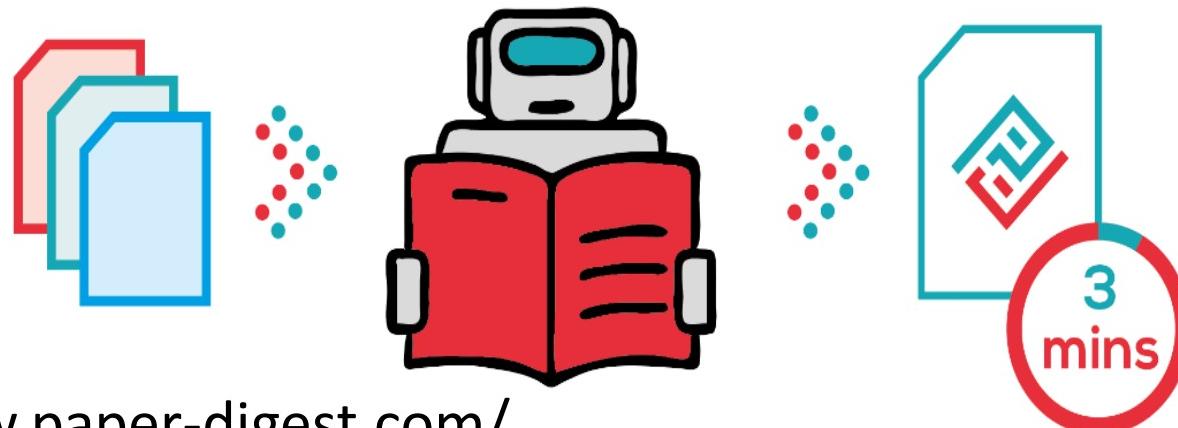
DNS Records Checker	Reverse NS Checker	DNS Report
DNS Propagation Checker	Server Port Scanner	Class C Ip Checker
Ip Location	Server Status Checker	Different Locations Ping
Traceroute Domain	Spider Simulator	Google Index Tool
Google Index Checker	Website Page Snooper	Urlencode / Urldecode
HTML Encoder Decoder	Domain IP Lookup	Image Cropper
Favicon Generator	Minify CSS	Minify JS

Paper digest

Paper Digest is for:

- *Students* who want to read more papers in less time.
- *Researchers* who want to communicate his/her research quickly.
- *Science Communicators* who want to effectively summarize a research.

Reducing reading time to **3 minutes!**



<https://www.paper-digest.com/>

Paper digest

paper digest

Paper

Samples

Artificial Astrocytes Improve Neural Network Performance

Porto-Pazos, et al., 2011



We are

10.1109/TMAG.2016.2600512

How to use?

Theoretical Analysis of Gap Potential Functions and Corner Saturation in 2-D, Symmetric Magnetic Recording Heads with Tilted Gap Corners

Aziz; Edress []

Full text link: <https://doi.org/10.1109%2FTmag.2016.2600512>

What this paper is about

Introduction and Objective

- D symmetric heads is derived in closed-form for any gap corner angle. This approximation is constructed by first deriving exactly the scalar magnetic potential near a two-dimensional corner with variable corner angle through solution of Laplace's equation in polar coordinates, and then superposing the magnetic potentials of two corners displaced from each other by a distance equal to the gap length.
- However, the two corner surfaces in were at different potentials and can not be used to model an individual 2.
- The boundary value problems solved in this work are all based on static scalar and vector potentials since the focus is on field mapping and characterising corner saturation and its dependence on corner angle, and therefore transient effects are ignored.

What you can learn

Discussion and Conclusions

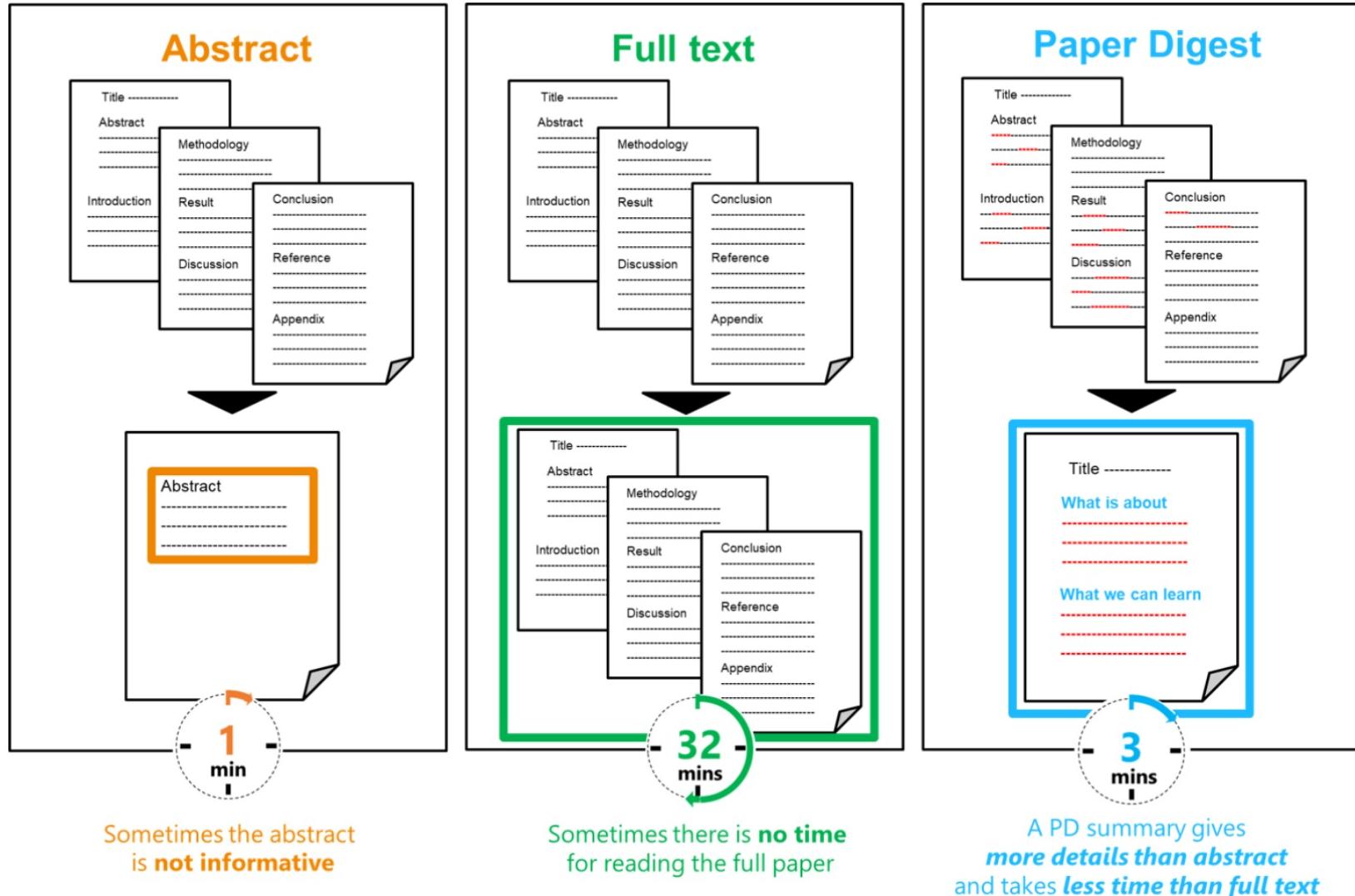
- The effect of corner saturation on maximum field gradients is even more severe as shown in with deviation from the linear model occurring at driving fields that are less than half of the saturation fields for the field maxima as indicated in.
- One consequence of saturation in the gap corners is a reduction in the magnetic material in the gap region and therefore an increase in the effective head gap length.
- Instead, the calculated longitudinal field from finite-elements at a close proximity of $y/g = 0.01$ to the head surface is used and its Fourier transform is computed as a function of driving field at different gap corner angles.
- D symmetrical head structures with great accuracy: this was demonstrated for the parallel plate, tilted plate and tilted pole heads.
- An approximate analytical expression for the Fourier transform of the surface field of 2.
- The finite-element simulations in this work identified an exponential dependence of the saturation driving fields on gap corner angle and core material saturation magnetisation M_s in the form: $aM_s \exp(b)$, where the free parameters a and b were determined from fitting to the finite-element simulations for both field maxima and their gradients.

gin Register

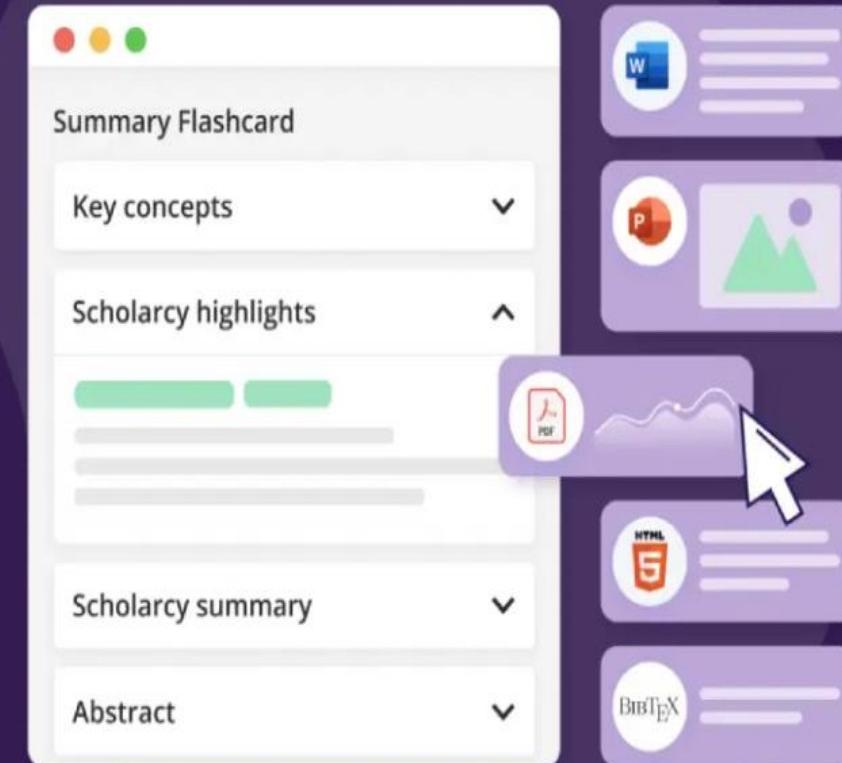
improve

Paper digest

[Top](#) | [Samples](#) | [Search](#) | [Follow us!](#)



The AI-powered article summarizer

[Try it now](#)

[Blog](#)[We're Hiring](#)[FAQ](#)[Plans](#)[Summarizer](#)[Wordtune Editor](#)[Add to Chrome](#)

Your thoughts in words

Say exactly what you mean through clear,
compelling and authentic writing.

[Add to Chrome it's free](#)

This opportunity interest

<https://www.wordtune.com/>

Wordtune for Microsoft Word



Wordtune

[Blog](#)[We're Hiring](#)[FAQ](#)[Plans](#)[Summarizer](#)[Wordtune Editor](#)[Add to Chrome](#)

Get a feel for what Wordtune can do!

I going to gymes

[★ Rewrite](#)[Get started for free →](#)

I'm going to the gym

Gym is where I go

It's time for me to go to the gym

Gym is what I do

Gym is my favorite place

Wordtune

[Blog](#)[We're Hiring](#)[FAQ](#)[Plans](#)[Summarizer](#)[Wordtune Editor](#)[Add to Chrome](#)

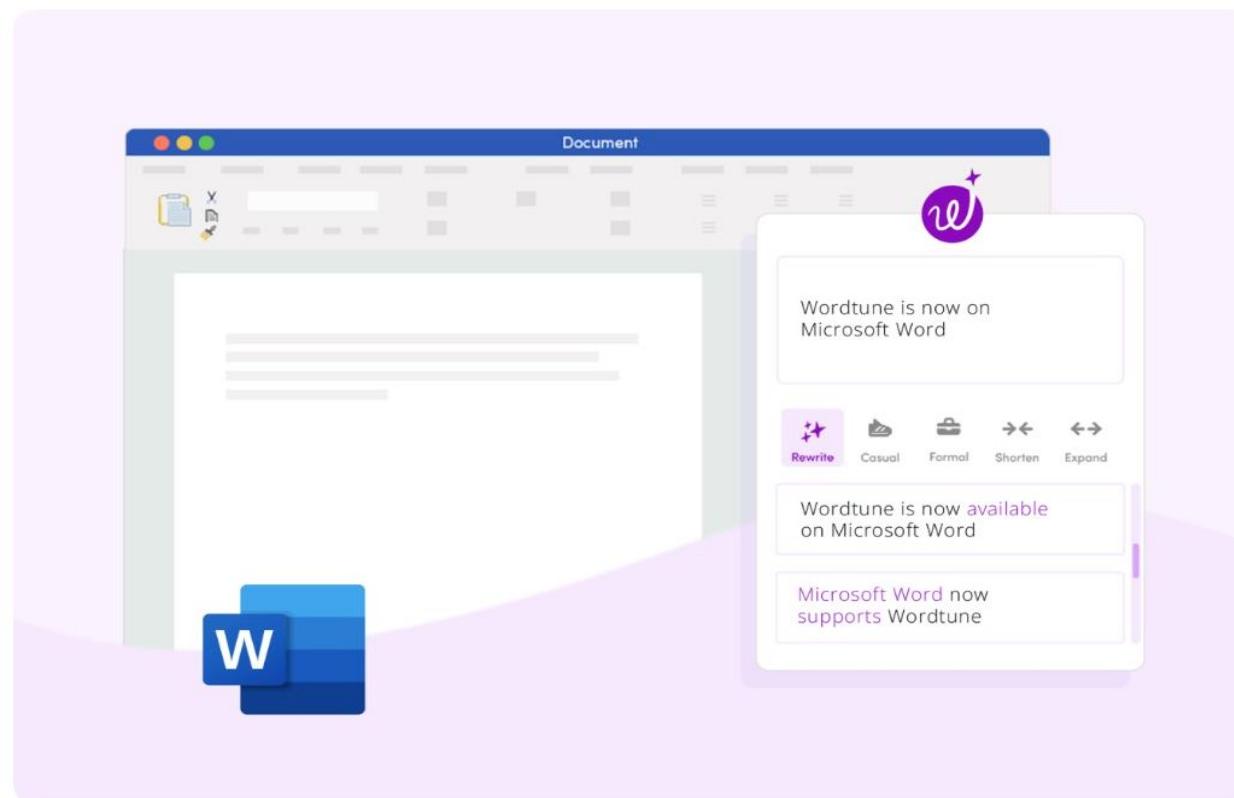
Wordtune works on your favorite websites

[GOOGLE DOCS](#)[GMAIL](#)[LINKEDIN](#)[FACEBOOK](#)[TWITTER](#)[SLACK WEB](#)[WHATSAPP WEB](#)[OUTLOOK WEB](#)

and more...

[Add to Chrome](#)

Wordtune

[Blog](#)[We're Hiring](#)[FAQ](#)[Plans](#)[Summarizer](#)[Wordtune Editor](#)[Add to Chrome](#)**NEW**

Wordtune for Microsoft Word

Express exactly what you mean,
right where you work.

[Get the Add-in](#)



A revolutionary reading experience

Wordtune Read is an AI reader that summarizes long documents so you can understand more, faster.

Try now for free

Academic article

Information overload occurs when decision-makers face a level of information greater than their ability to process. The phenomenon dates back to medieval times, but 2 innovations rapidly accelerated it: Gutenberg's printing and the rise of information technology.

Academic article

Information overload occurs when decision-makers face a level of information that is greater than their information processing capacity, i.e., an overly high information load (Schroder et al. 1967; Eppler and Mengis 2004), but the phenomenon is not confined to the modern world. As Blair (2012) noted in her review article, even in the thirteenth century, scholars complained of "the key ingredients of the feeling of overload which are still with us today: 'the multitude of books, the shortness of time and the slipperiness of memory'" (Blair 2012, p. 1).

Two radical innovations supported the rapid increase in the availability of information and the decrease in information search-related costs: Gutenberg's printing innovations and the rise of information technology (IT). Before these radical innovations, the issue of information overload was limited to a wealthy and privileged elite. In particular, the rise of IT and the use of internet services have resulted in an expansion of information overload-related problems for all social ranks. In ancient and medieval times, the nobility and academics almost exclusively faced information overload-related problems, as Blair (2012) and Levitin (2014) suggested.

Summarize!

The Generative AI Application Landscape

Image

IMAGE GENERATION

MidJourney

stability.ai

craiyon

wombo.ai

ROSEBUD.AI

Lexica

playground

MODELS: OPENAI DALL-E 2 STABLE DIFFUSION
CRAIYON

3D

3D MODELS/SCENES
TO COME

MODELS: DREAMFUSION NVIDIA GET3D MDM

Text

MARKETING

copy.ai

Jasper

anyword

CONTENDA

SUPPORT
(CHAT/EMAIL)

TO COME

MODELS: OPENAI GPT-3
ANTHROPIC AI2

DEEPMIND GOPHER
ALIBABA, YANDEX, ETC.

FACEBOOK OPT

HUGGING FACE BLOOM

COHERE

SALES

LAVENDER

Smartwriter.ai

OTHER

Character.AI

AI DUNGEON

GENERAL WRITING

wordtune

OTHERSIDEAI

WRITER

COMPOSE AI

Rytr

LEX

Video

VIDEO EDITING/
GENERATION

runway

PERSONALIZED VIDEOS

tavus

synthesia

Hour One.

Rephrase.ai

MODELS: MICROSOFT X-CLIP
META MAKE-A-VIDEO

Speech

VOICE SYNTHESIS

RESEMBLE.AI

WELLSAID

podcast.ai

MODELS: OPENAI

Other

GAMING

AI DUNGEON

RPA

Adept

MODELS: TO COME

MUSIC

TO COME

AUDIO

TO COME

BIOLOGY/CHEMISTRY

TO COME

Code

CODE GENERATION

GitHub Copilot

replit GhostWriter

tabnine

DOCUMENTATION

Mintlify

Stenography

WEB APP BUILDERS

Debuild

Enzyme

TEXT TO SQL

cogram

MODELS: OPENAI GPT-3 TABNINE STABILITY.AI

Text to voice



PRODUCT ▾

SOLUTIONS

TEAMS

PRICING

SIGN IN

TRY FOR FREE

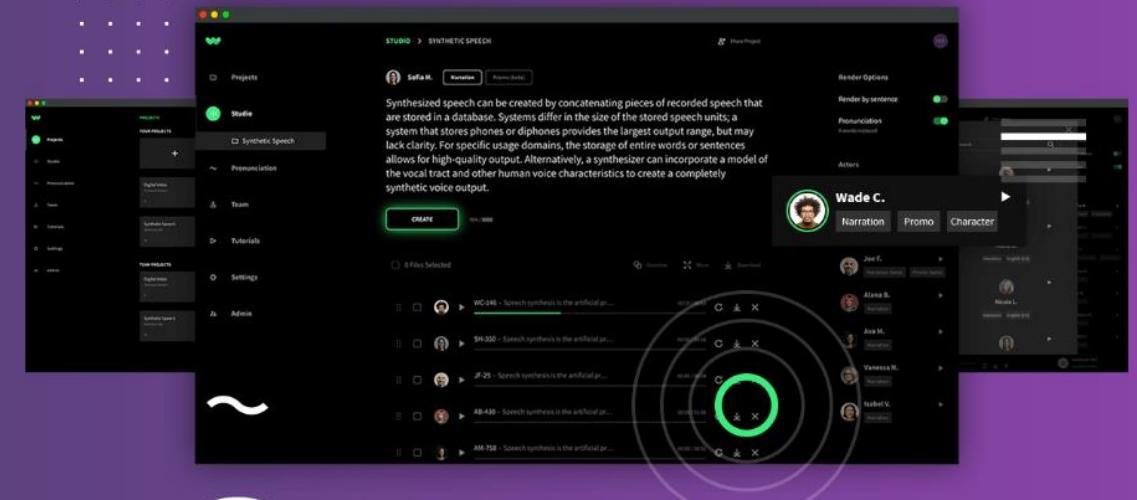
Convert text to voice in real time

With WellSaid, you and your team can create a compelling realistic AI voice over for all your digital content.

TRY FOR FREE

CONTACT SALES

DID YOU HEAR THIS? PLAY SAMPLES ➤



Text to voice

NEW! Experience the future of voice technology with our new Ultra-realistic voices! [TRY NOW](#)

 **Play.ht**

AI Voices Integrations ▾ Use Cases ▾ Features ▾ Pricing Log in Try for Free

AI voice generator & realistic text to speech (TTS)

AI powered text to voice generation

Generate realistic Text to Speech (TTS) audio using online AI Voice Generator and best synthetic voices. Instantly convert text in to natural-sounding speech and download as MP3 and WAV audio files.

[Create free AI voice over](#) [Get in touch](#)

Rated **Excellent** on Trustpilot 

Experience AI Voices
Click on a voice to hear it

William US 

Lottie UK 

Davis US 

Arthur UK 

Evelyn US 

Frederick UK 

Explore our new ultra-realistic voices

MP3 & WAV Export • 132 Languages • Commercial Use
Full SSML Support • 832 voices • Custom Voice Cloning



Text to voice



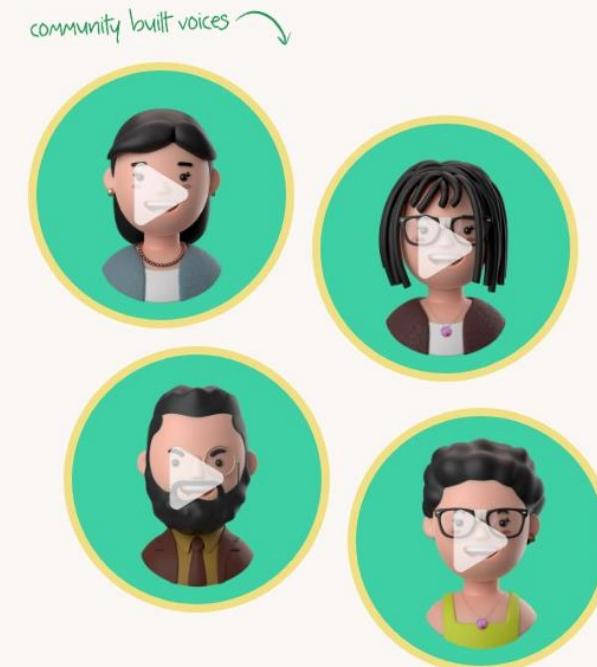
PRODUCTS USE CASES PRICING SIGN IN REQUEST DEMO

Don't sound like Alexa.

Resemble's AI voice generator lets you create human-like voice overs in seconds.

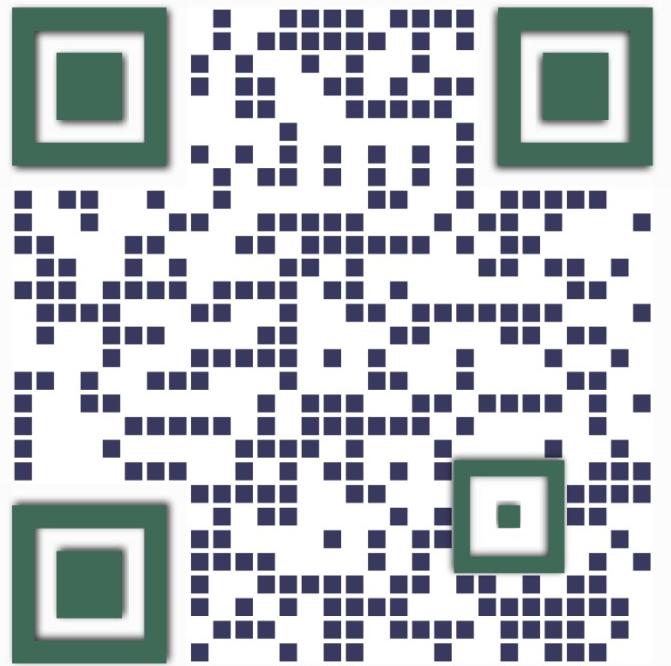
Clone your voice for free

Request Demo



<https://www.resemble.ai/>

Scan Me



See you tomorrow ..

Thanks for
attention



4:00 PM

Implementing AI Techniques in Research

Day
2

استخدام أدوات الذكاء الاصطناعي في البحث العلمي

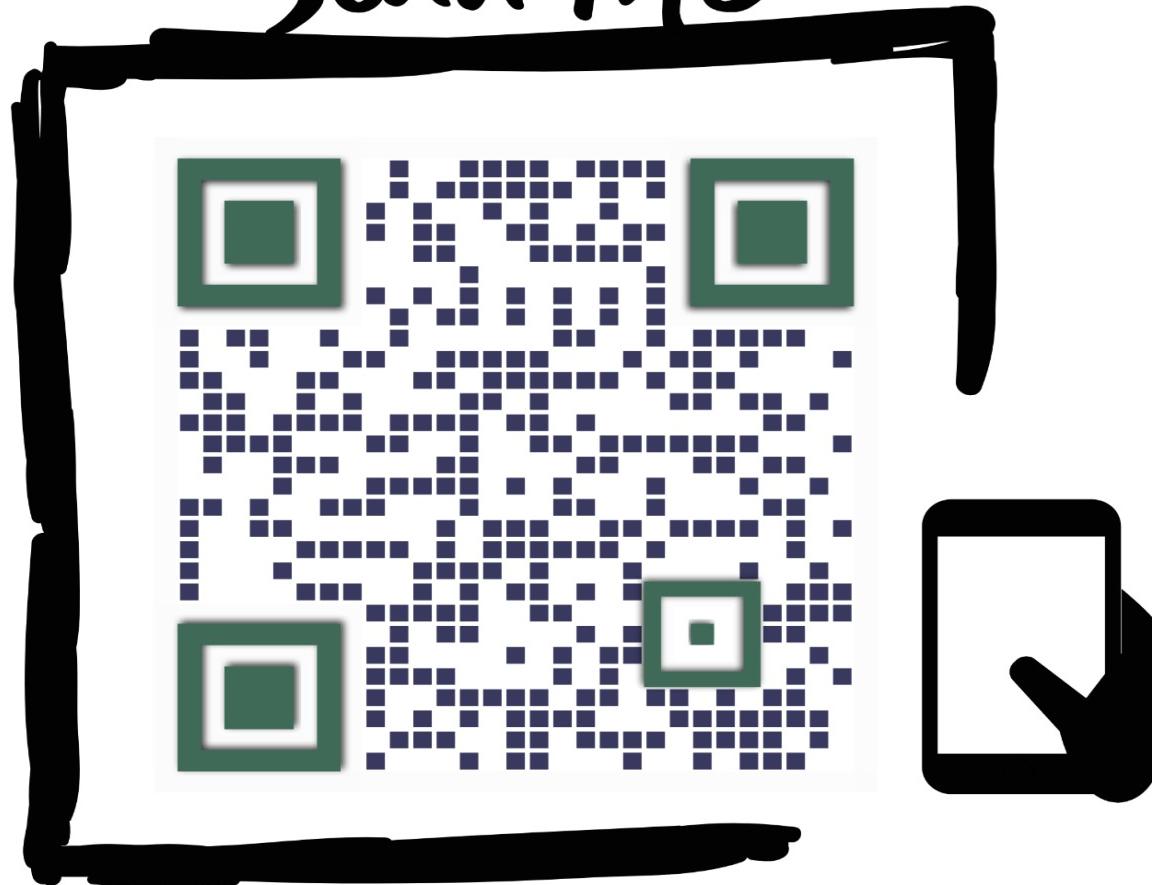


4:00 PM



Register your details to receive
your certificate ..

Scan Me



Elicit AI Research Assistant



Elicit

Elicit AI Research Assistant

- What
- How to use it

What is Elicit ?

Elicit is a research assistant using language models like GPT-3 to automate parts of researchers' workflows. Currently, the main workflow in Elicit is Literature Review. If you ask a question, Elicit will show relevant papers and summaries of key information about those papers in an easy-to-use table.

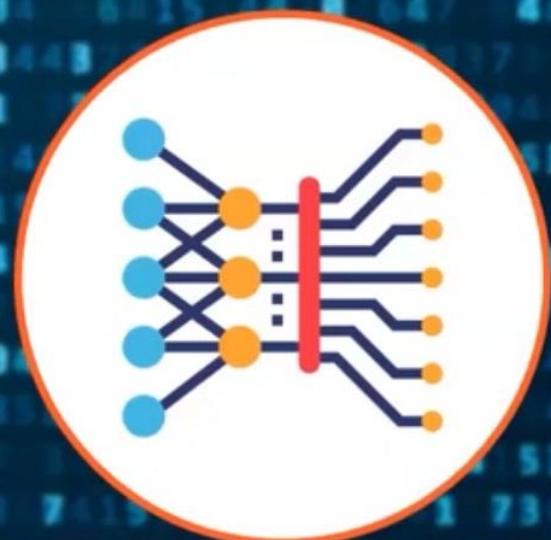
For more details about GPT-3 Language Model:
<https://gpt3demo.com/category/ai-writing-assistants>



What is GPT-3?

What's in it for you?

- What is GPT-3?
- GPT-3 Specifications
- Models vs Parameters
- Datasets for GPT-3
- GPT-3 Accuracy
- Applications of GPT-3



What is GPT-3?

GPT-3 stands for **Generative Pre-Trained Transformer**

GPT-3 is a powerful third generation language model developed by **OpenAI** and is in beta testing as of July 2020



GPT-3 Specifications

GPT-3 has **175 billion** parameters

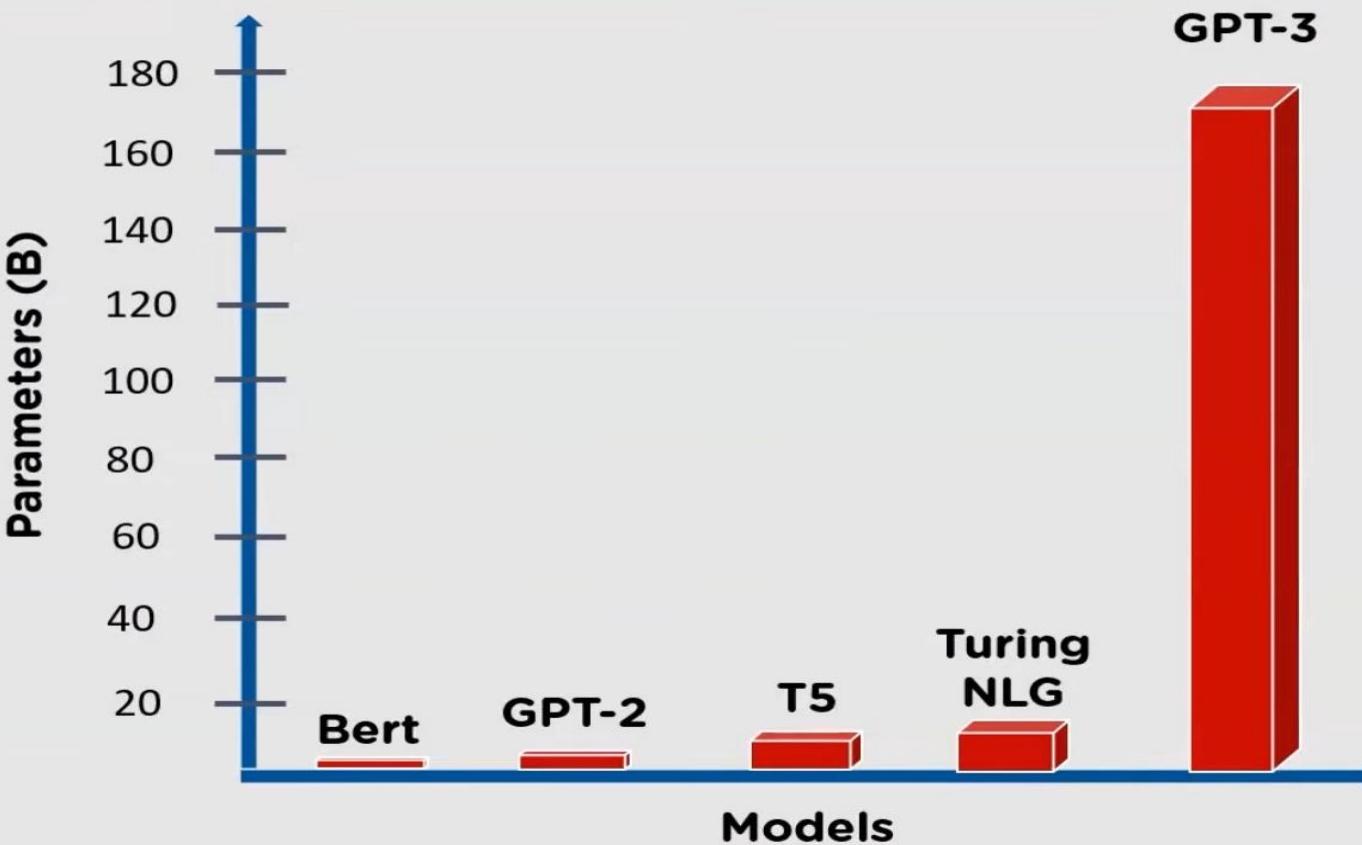


It has been trained with **45 TB** text data which includes sources from **Wikipedia** and **books**

60% data for pre-training GPT-3 model was taken from **Common Crawl**

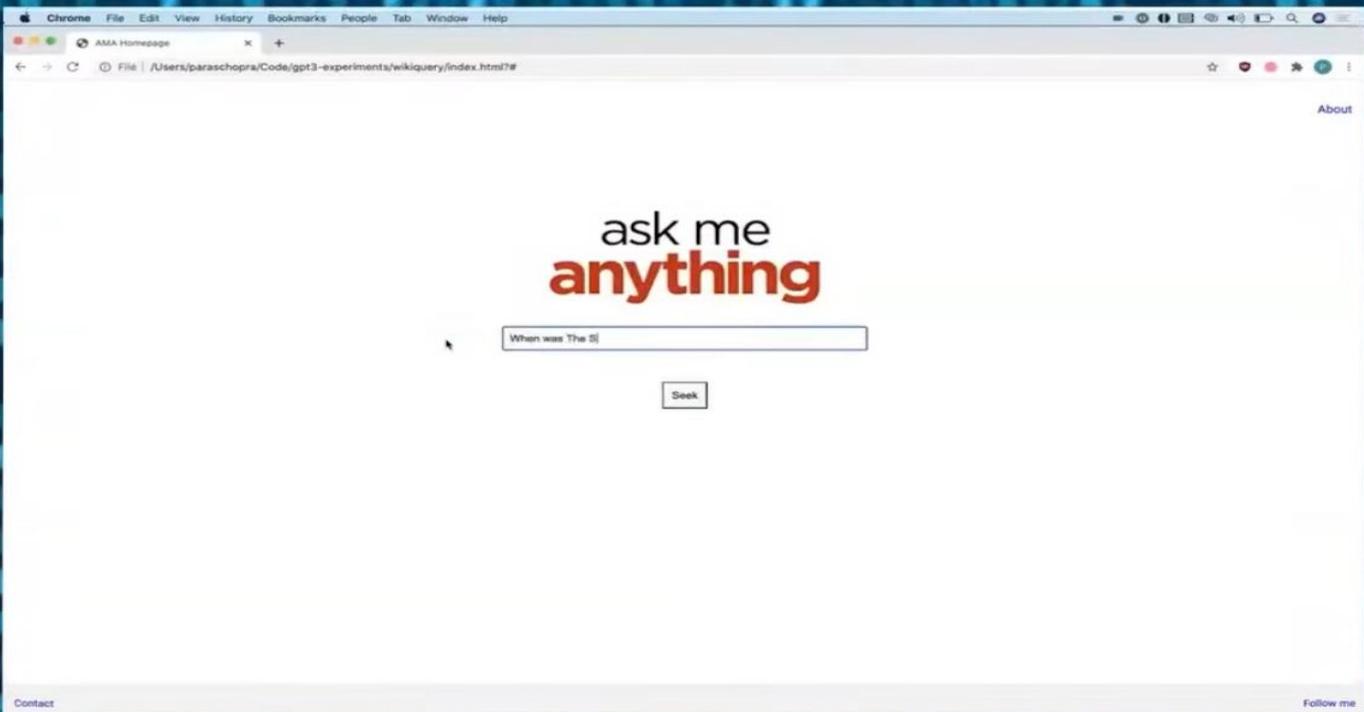
It has **96 decoder layers** and is built on a system with **285k CPU cores**, **10k GPUs** and **400 Gbps** network connectivity for each GPU server

Models vs Parameters



Applications of GPT-3

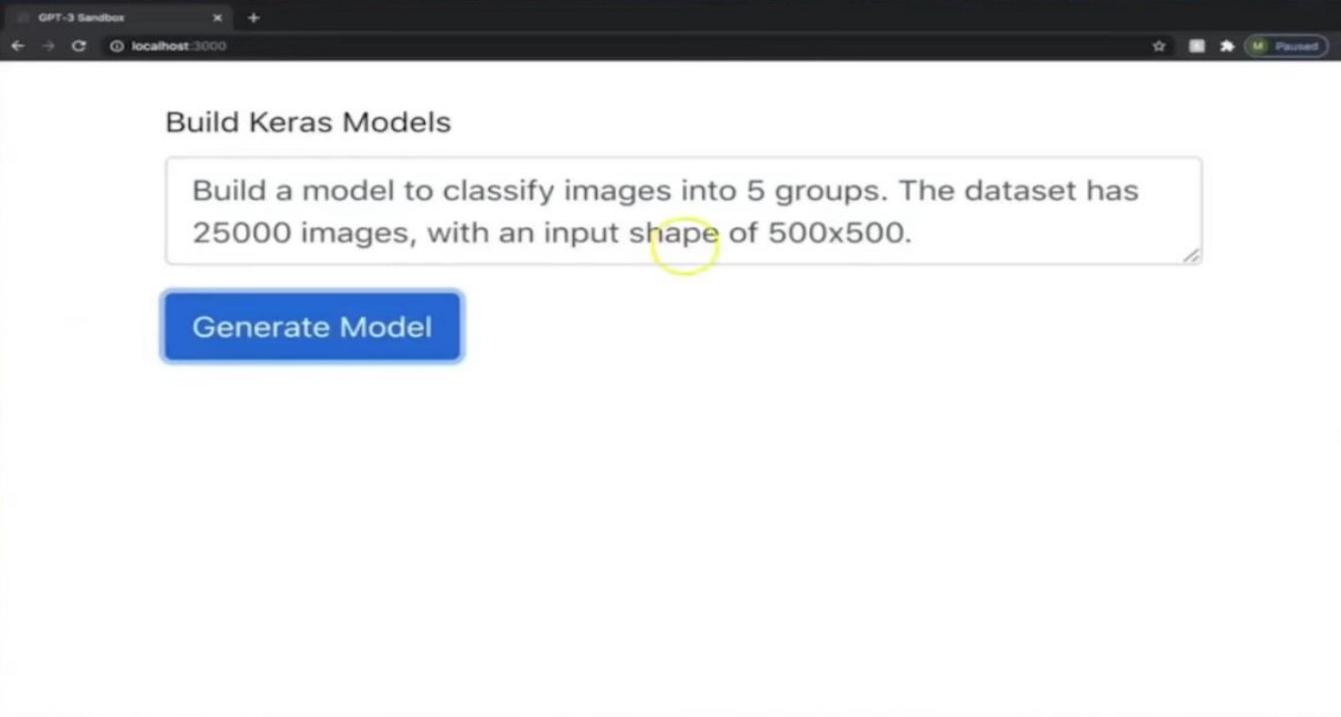
Creating Search Engine



<https://twitter.com/paraschopra/status/1284801028676653060>

Applications of GPT-3

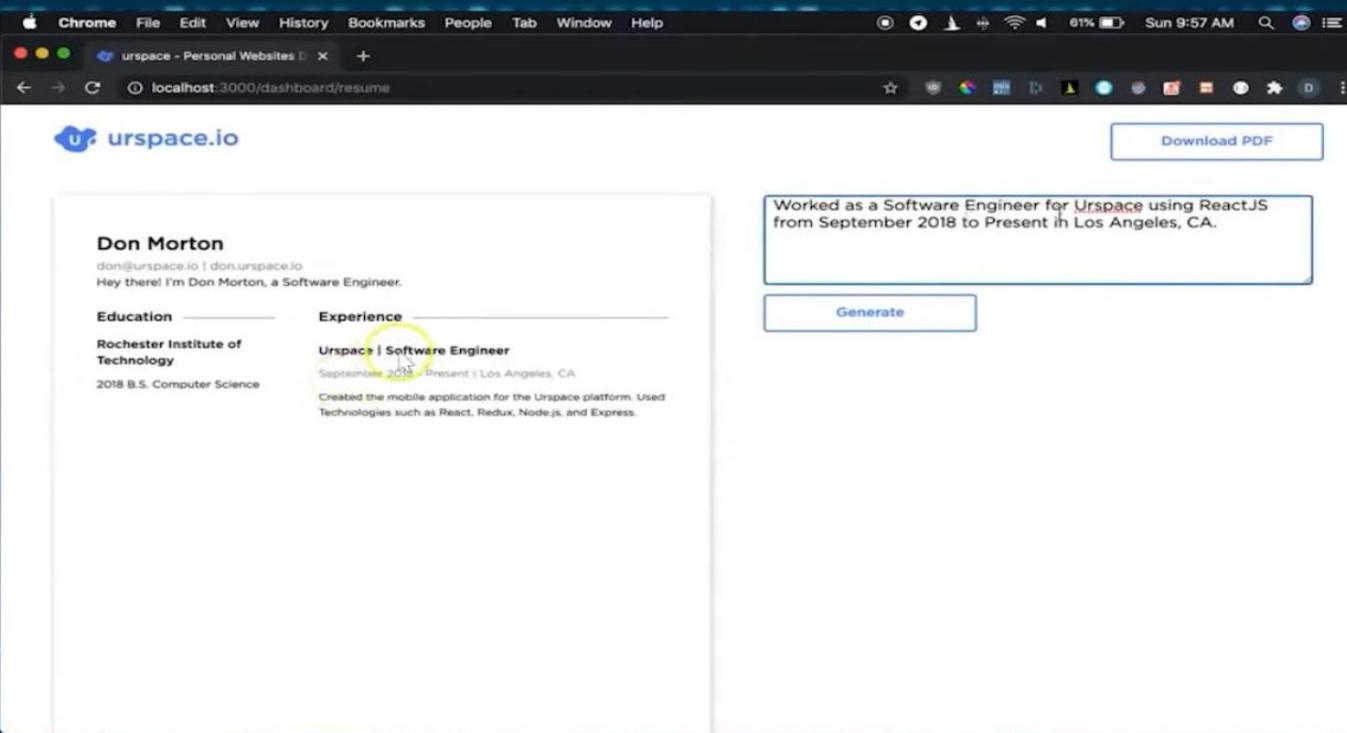
Building Machine Learning Models



[https://twitter.com/mattshumer /status/1287125015528341506](https://twitter.com/mattshumer/status/1287125015528341506)

Applications of GPT-3

Creating Resumes



<https://twitter.com/DonCubed/status/1284908940149395456>

Applications of GPT-3

Writing SQL Queries

How many users have signed up since the start of 2020?

```
1 SELECT
2   count(id)
3 FROM
4   users
5 WHERE
6   created_at > '2020-01-01'
```

<https://twitter.com/FaraazNishtar/status/1285934622891667457>

Applications of GPT-3

Using it as a Spreadsheet function

The screenshot shows a spreadsheet application window titled "GPT Playground". The menu bar includes File, Edit, View, Insert, Format, Data, Tools, Add-ons, Help, and a "Last edit was" timestamp. The toolbar features standard icons for file operations and cell selection. The formula bar displays the function `=gpt3(A1:B4,A5)`. The main grid contains the following data:

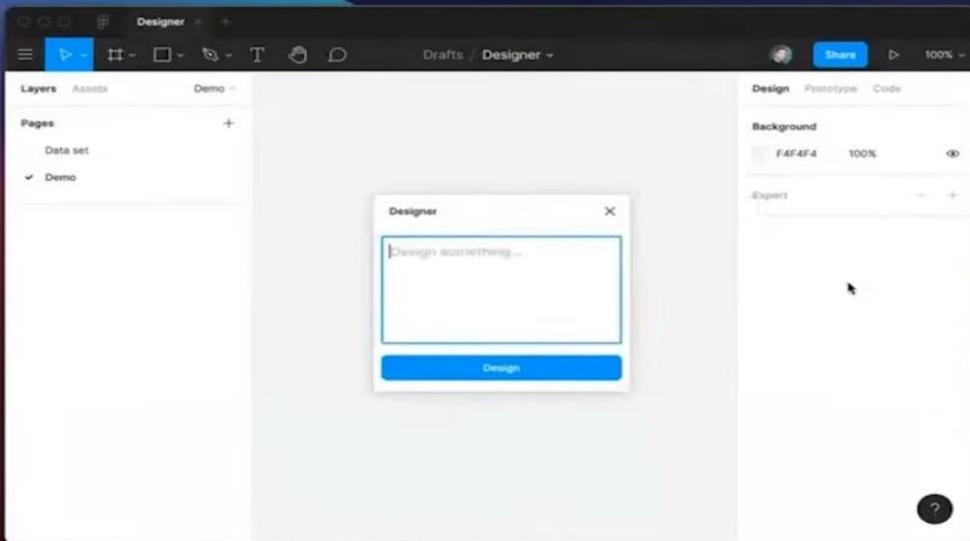
	A	B	C	D
1	State Name	Population		
2	Illinois	12.67M		
3	California	39.51M		
4	Ohio	11.69M		
5	Michigan	=gpt3(A1:B4,A5)		
6				

The row for Michigan is highlighted with a yellow dashed border, and the cell containing the formula is also highlighted with a blue border. A yellow circle with a cursor icon is positioned over the "Michigan" cell.

<https://twitter.com/pavtalk/status/1285410751092416513>

Applications of GPT-3

Building Web Apps



<https://twitter.com/jsngr/status/1287026808429383680>

For more information about GPT-3?

<https://youtu.be/UUPwrYklYI8>

<https://gpt3demo.com/category/ai-writing-assistants>

Elicit AI Research Assistant

A screenshot of a web browser window. The address bar shows the URL elicit.org. The page content is the Elicit AI Research Assistant homepage, featuring a large search bar and a "Ask a research question" section.

The browser toolbar includes standard navigation buttons (back, forward, refresh), a lock icon, and various bookmark and extension icons. The menu bar at the top right contains options like "FAQ", "Tasks", "Starred", and a user profile icon.

<https://elicit.org/>

Ask a research question

Elicit will find answers from 175 million papers



Or run Elicit over your own papers

Upload PDFs

How could Elicit help?

Elicit

FAQ

Tasks

Starred



Ask a research question

Elicit will find answers from 175 million papers



Step 1: Find

Or run Elicit over your own papers

Upload PDFs

How could Elicit help?

Elicit

FAQ

Tasks

Starred



Ask a research question

Elicit will find answers from 175 million papers

The screenshot shows the Elicit search interface. At the top is a search bar with a magnifying glass icon and the text "Mathematical simulation". To the right of the search bar is a blue "Search" button. Below the search bar is a light blue rectangular button with a starburst icon and the text "Brainstorm questions for 'Mathematical simulation'". At the bottom of the interface is a white button with a circular arrow icon and the text "Upload PDFs".

Mathematical simulation

Search

✳ Brainstorm questions for 'Mathematical simulation'

Upload PDFs

2 Explore

Elicit Theoretical Analysis of Gap Potential Functions and Corner Saturation in ↗

FAQ Tasks Starred Help

Add information about all papers

Takeaway from abstract ✓

Intervention

Outcomes measured

Number of participants

Search for paper information

Q What was the...

Paper title	Takeaway from abstract	Intervention
<p>Theoretical Analysis of Gap Potential Functions and Corner Saturation in 2-D, Symmetric Magnetic Recording Heads With Tilted Gap Corners</p> <p>M. Aziz, Ammar I. Edress</p> <p>IEEE Transactions on Magnetics</p> <p>2016 0 Citations PDF ↗</p>	<p>The static vector potential for the 2-D symmetrical head was derived, showing the shift in the spectral gap nulls toward longer wavelengths with reducing gap corner angle.</p>	<p>scalar magnetic poter corner</p>
<p>Approximate Expressions for the Magnetic Potential and Fields of 2-D, Asymmetrical Magnetic Recording Heads</p> <p>M. Aziz, Ammar I. Edress, C. Wright</p> <p>IEEE Transactions on Magnetics</p> <p>2016 2 Citations PDF ↗</p>	<p>Approximate expressions for magnetic potential and fields from 2-D asymmetrical magnetic recording heads are derived.</p>	<p>detailed theoretical de simple closed form ap scalar magnetic poter 2-D asymmetrical ma their Fourier transform</p>
<p>Pole tip saturation in magnetic recording heads</p> <p>H. Bertram, C. Steele</p> <p>1976 25 Citations</p>	<p>The saturation of a magnetic recording head primarily affects the recording field gradients.</p>	-
<p>A theoretical analysis of saturation magnetic recording</p> <p>D. Snelastic, I. Morrison</p>	<p>The saturation magnetic recording process depends on the writing process, demagnetization, recording</p>	-

2 Explore

Elicit [FAQ](#) [Tasks](#) [Starred](#) [Help](#)

Add information papers Has PDF Filter Sort by Export as

Keywords Published after Study type

Takeaway from abstract Intervention Outcomes measured Number of participants

Search for paper information

Paper title
Theoretical Analysis of Gap Potential Functions and Corner Saturation in 2-D, Symmetric Magnetic Recording Heads With Tilted Gap Corners
M. Aziz, Ammar I. Edress
IEEE Transactions on Magnetics
2016 0 Citations [PDF](#)

Takeaway from abstract
Approximate expressions for magnetic potential and fields from 2-D asymmetrical magnetic recording heads are derived.

Intervention
Approximate Expressions for the Magnetic Potential and Fields of 2-D, Asymmetrical Magnetic Recording Heads
M. Aziz, Ammar I. Edress, C. Wright
IEEE Transactions on Magnetics
2016 2 Citations [PDF](#)

Outcomes measured
Pole tip saturation in magnetic recording heads
H. Bertram, C. Steele
1976 25 Citations

Number of participants
The saturation of a magnetic recording head primarily affects the recording field gradients.

Study type
A theoretical analysis of saturation magnetic recording
D. Snelastic, I. Morrison

Export as
BIB CSV

2 Explore

Theoretical Analysis of Gap Potential Functions and Corner Saturation in 2-D Asymmetrical Magnetic Recording Heads

Add information about all papers

Takeaway from abstract

Intervention

Outcomes measured

Number of participants

Search for paper information

What was the...

Has PDF

Filter

Sort by ↓

Export as

Takeaway from abstract	Intervention
The static vector potential for the 2-D symmetrical head was derived, showing the shift in the spectral gap nulls toward longer wavelengths with reducing gap corner angle.	scalar magnetic poter corner
Approximate expressions for magnetic potential and fields from 2-D asymmetrical magnetic recording heads are derived.	detailed theoretical de simple closed form ap scalar magnetic poter 2-D asymmetrical ma their Fourier transform
The saturation of a magnetic recording head primarily affects the recording field gradients.	-
The saturation magnetic recording process depends on the writing process, demagnetization, recording	-

2 Explore

Elicit Theoretical Analysis of Gap Potential Functions and Corner Saturation in ...

FAQ Tasks Starred

Add information about all papers

Takeaway from abstract

Intervention

Outcomes measured

Number of participants

Search for paper information

What was the...

METADATA

Authors

Journal

Influential citations

DOI

Funding source

POPULATION STUDIED

Number of participants

Number of studies

Population characteristics

Paper title

Takeaway from abstract

Intervention

Paper title	Takeaway from abstract	Intervention
Theoretical Analysis of Gap Potential Functions and Corner Saturation in 2-D, Symmetric Magnetic Recording Heads With Tilted Gap Corners M. Aziz, Ammar I. Edress <i>IEEE Transactions on Magnetics</i> 2016 0 Citations PDF ↗	The static vector potential for the 2-D symmetrical head was derived, showing the shift in the spectral gap nulls toward longer wavelengths with reducing gap corner angle.	scalar magnetic poter corner
Approximate Expressions for the Magnetic Potential and Fields of 2-D, Asymmetrical Magnetic Recording Heads M. Aziz, Ammar I. Edress, C. Wright <i>IEEE Transactions on Magnetics</i> 2016 2 Citations PDF ↗	Approximate expressions for magnetic potential and fields from 2-D asymmetrical magnetic recording heads are derived.	detailed theoretical de simple closed form ap scalar magnetic poter 2-D asymmetrical ma their Fourier transform
Pole tip saturation in magnetic recording heads H. Bertram, C. Steele 1976 25 Citations	The saturation of a magnetic recording head primarily affects the recording field gradients.	-
A theoretical analysis of saturation magnetic recording D. Snelastic, J. Morrison	The saturation magnetic recording process depends on the writing process, demagnetization, recording	-

Add tasks..

Tasks



+ Create

Elicit recommended

Lit review: Explore research questions

Enter a research question, and get back answers from papers

Brainstorm research questions

Brainstorm more specific and related versions of your question

Created by others

Get Independent (Manipulated) Variable and Dependent Variable from Hypothesis, Question, or Statement

For each Hypothesis, Question, or Statement, GPT-3 will find and list the Independent Variable and the Dependent Variable.

Convert "possible critique" citation into a question

Given a citation statement critiquing the methodology of a paper, generate a question that can be used to check other papers for the same limitation

Create new task

Elicit



Task name

Task description ⓘ

Input description ⓘ

Setup

Provide basic instructions to GPT-3 about your task

Task type

Generate

Input type ⓘ

e.g. 'Research question'

Output type ⓘ

e.g. 'Subquestions'

Instructions ⓘ

e.g. 'For each research question below, list subquestions:'

Provide examples

Improve GPT-3's ability to complete this task by providing examples. We recommend providing at least 3 examples.

+ Add example

Preview

Test to see how well your task performs



Auto refresh ⓘ

+ Add example

Sharing

Tasks

Elicit recommended

Tasks

+ Create

Elicit recommended

Lit review: Explore research questions

Enter a research question, and get back answers from papers

Brainstorm research questions

Brainstorm more specific and related versions of your question

Tasks

Created by others

Created by others

Get Independent (Manipulated) Variable and Dependent Variable from Hypothesis, Question, or Statement

For each Hypothesis, Question, or Statement, GPT-3 will find and list the Independent Variable and the Dependent Variable.

Convert "possible critique" citation into a question

Given a citation statement critiquing the methodology of a paper, generate a question that can be used to check other papers for the same limitation

Suggest search terms

Given a word or phrase, suggest related search terms you might want to use to find papers

Rephrase

Rewrite a sentence in different words

Abstract summarization

Generate a TL;DR of a provided academic paper abstract

Reason from one claim to another

Confabulate a plausible chain of reasoning from one claim to another.

Label a spreadsheet

Upload a spreadsheet with just a few rows tagged and let Elicit tag the rest

Say more

Elaborate on a short statement; works best for CS/ML statements

Method Deviser (work in progress)

Propose steps to solve a question or task

Help me solve this problem

Suggests ideas that could help you solve a problem

Suggest a project name

Given a project description suggest a good name

Behaviour science: Generate stakeholders and behaviours that cause a social problem

Given a description of a social problem, generate possible stakeholders and behaviours they could be doing that are reinforcing or maintaining the problem

Behaviour science: Suggest intervention enacted by an organisation that could change an audience's behaviour

Generate a list of possible interventions that an organisation could test that could change an audience's behaviour

Behaviour science: Generate stakeholders for a complex issue

Given a description of a social issue, generate possible stakeholders and groups who care about the issue and why

How is Elicit different from other research tools?

With the Elicit Literature Review workflow, you can:

1. Find relevant papers even if they don't match keywords.
2. Read summaries of abstracts specific to your query.
3. Automatically search forwards and backwards in the citation graph to find more relevant papers.
4. Customize what you see about the paper and organize papers by that information.
5. Filter based on study type.
6. Save & export your work.

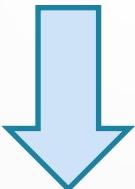


For more details about How is Elicit different from other research tools:
<https://elicit.org/faq#what-is-elicit>

How is Elicit built?

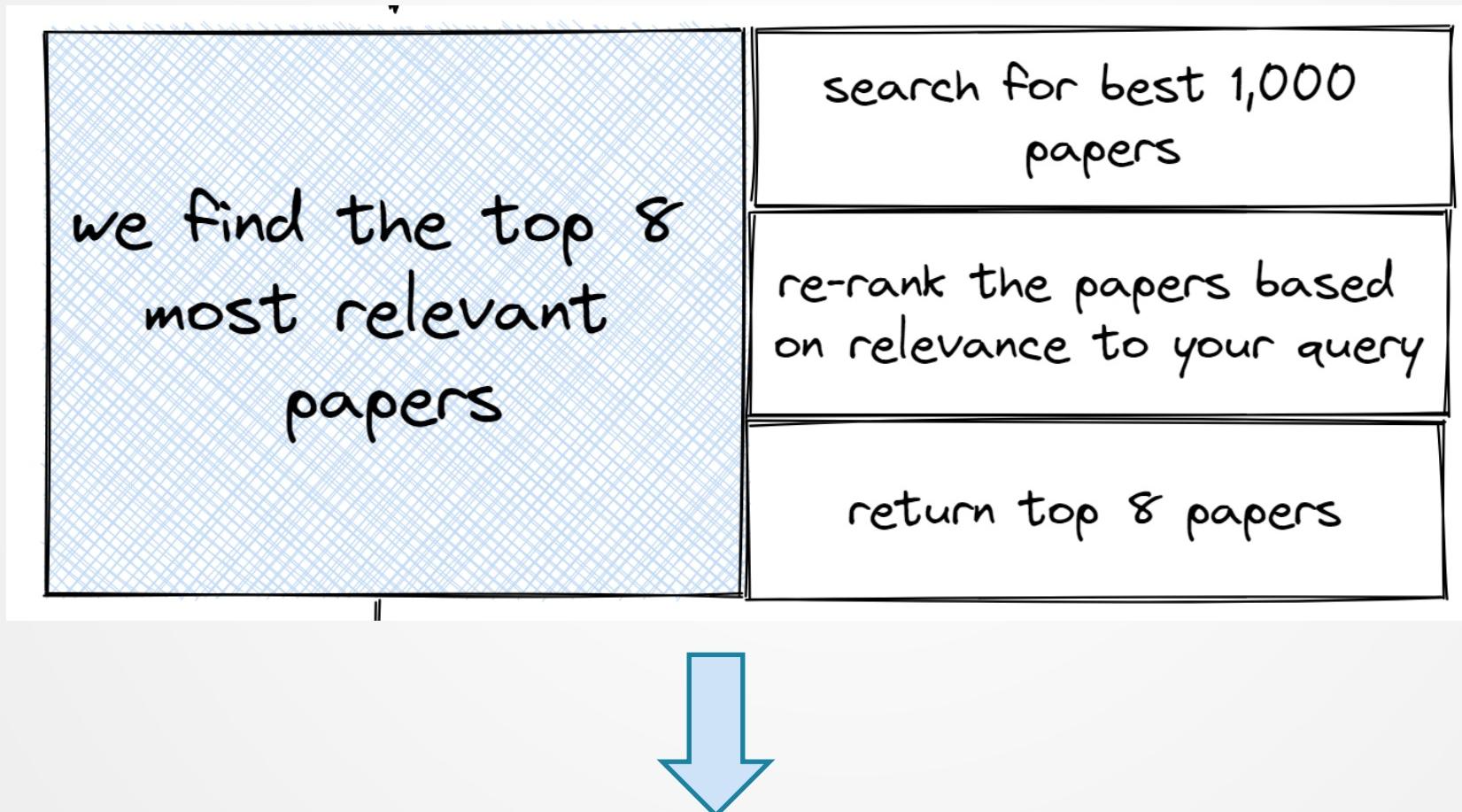
Elicit is an early-stage product, with updates and improvements every week. As of April 2022, the Literature Review workflow is implemented as follows:

you enter a research question



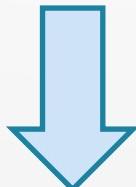
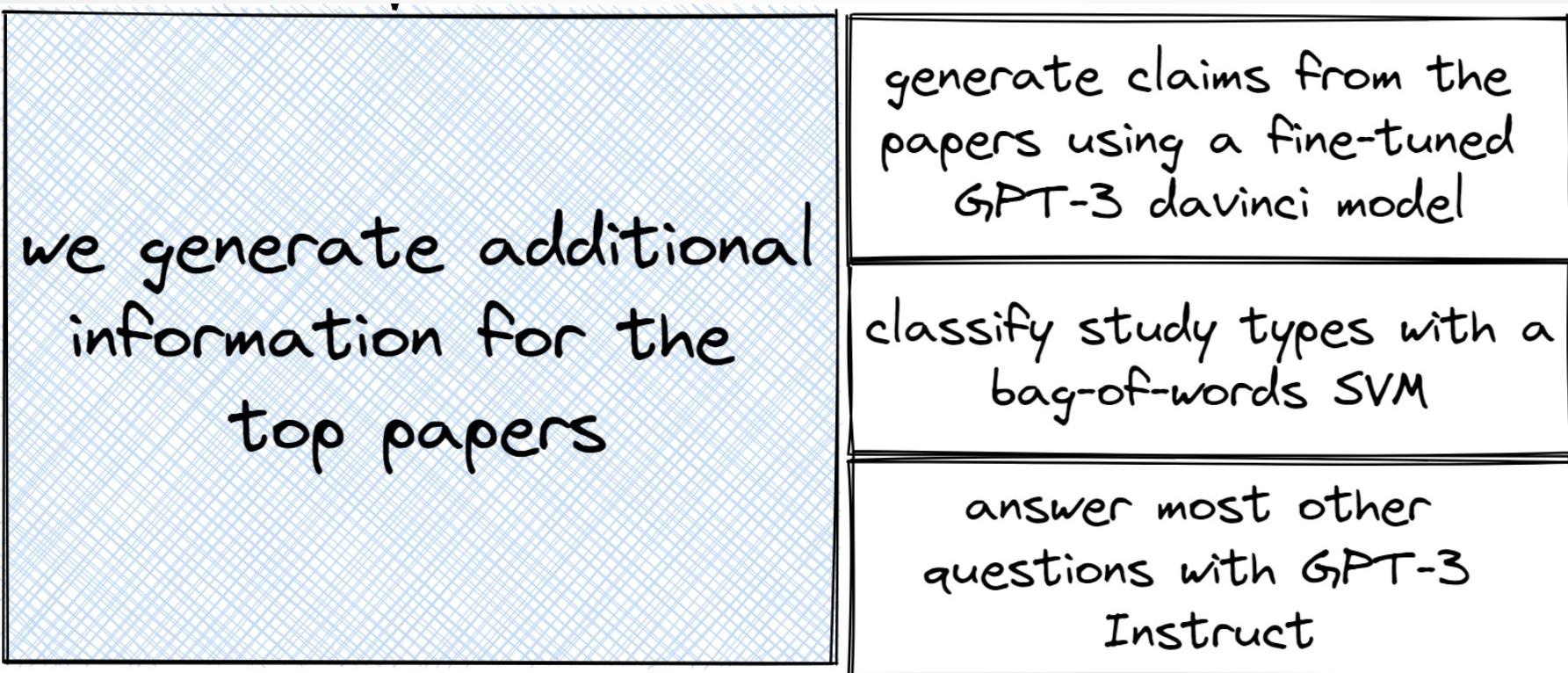
How is Elicit built?

Elicit is an early-stage product, with updates and improvements every week. As of April 2022, the Literature Review workflow is implemented as follows:



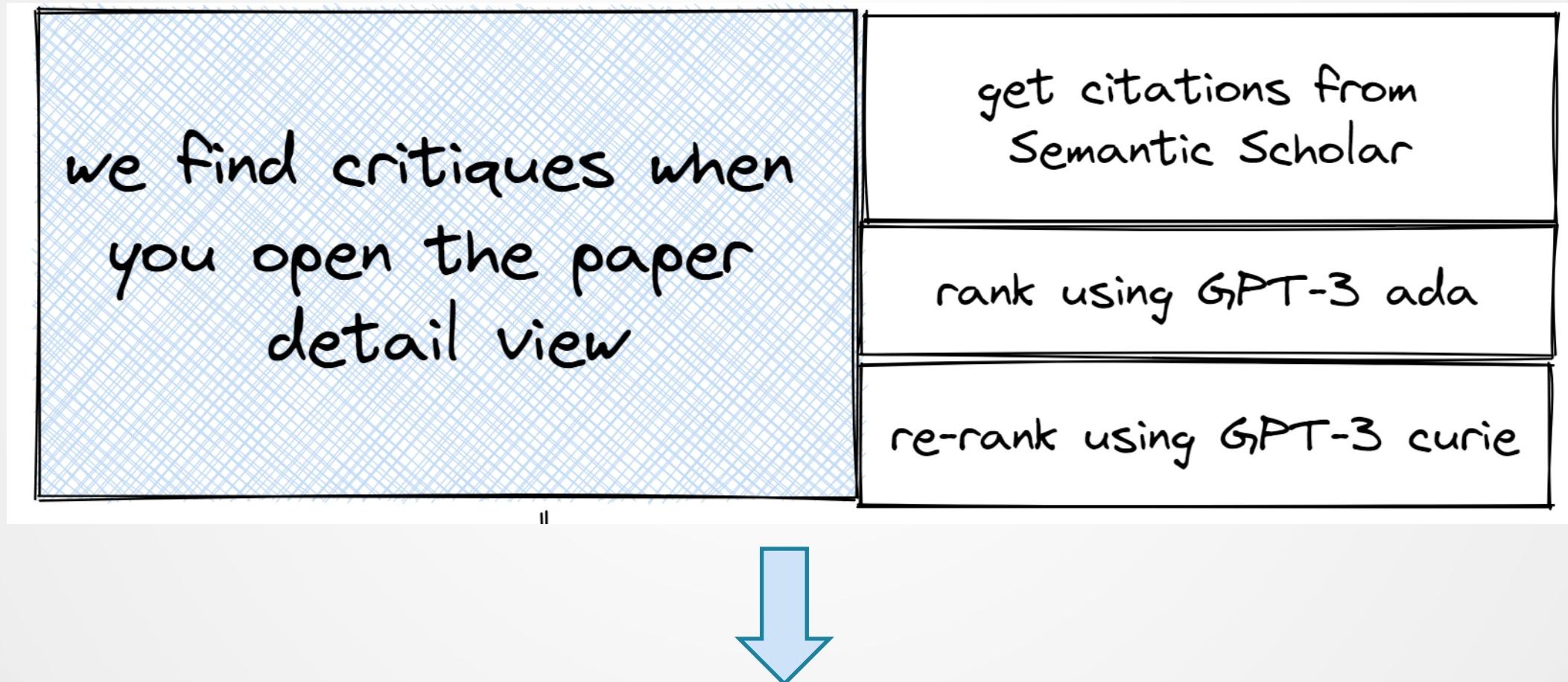
How is Elicit built?

Elicit is an early-stage product, with updates and improvements every week. As of April 2022, the Literature Review workflow is implemented as follows:



How is Elicit built?

Elicit is an early-stage product, with updates and improvements every week. As of April 2022, the Literature Review workflow is implemented as follows:



How is Elicit built?

Elicit is an early-stage product, with updates and improvements every week. As of April 2022, the Literature Review workflow is implemented as follows:

we stream information back to your browser as soon as it's ready

How can I learn more?

- 1- Our **mailing list** shares feature launches. We launch a feature every week. You can see a log of the most recent 20 feature launches [**here**](#).
- 2- Our **Twitter** account shares feature launches and conversations with different Elicit users.
- 3- Our **YouTube channel** has Elicit tutorials and talks by members of the team.
- 4- Our **Slack Workspace** has feature launches, organizational announcements, shared resources, and conversations with Elicit users.
- 5- The **Ought** page has more information about the team building this and their mission.

Ask a research question

Elicit will find answers from 175 million papers.

A search input field containing the text "How ef".

Or run Elicit on your papers

Enter a research question

Do|



Wolfram|Alpha



Wolfram|Alpha

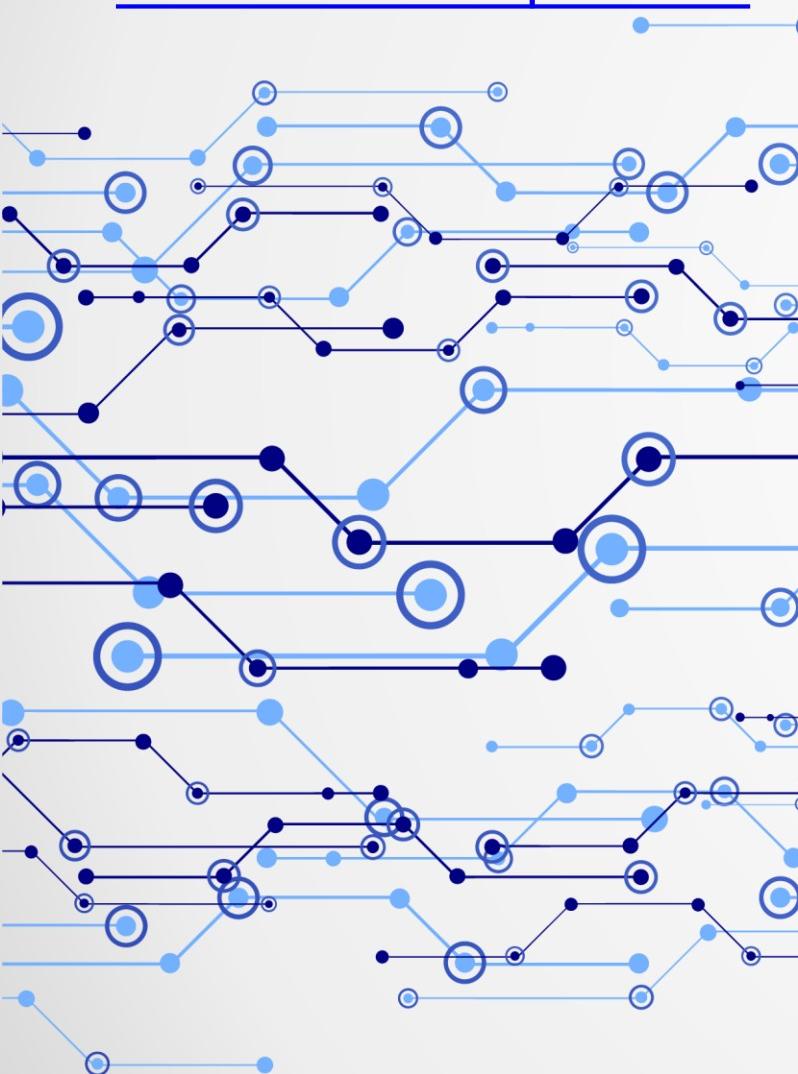
Computational Intelligence

- What ?
- How?



Wolfram|Alpha

www.wolframalpha.com



Enter what you want to calculate or know about

NATURAL LANGUAGE

MATH INPUT

EXTENDED KEYBOARD

EXAMPLES

UPLOAD

RANDOM

Compute expert-level answers using Wolfram's breakthrough algorithms, knowledgebase and AI technology

Mathematics ›

Step-by-Step Solutions

Elementary Math

x^2-1 Algebra

Plotting & Graphics

$\int f(x)dx$ Calculus & Analysis

$\frac{x}{12}$ Geometry

$y''(x)$ Differential Equations

Statistics

More Topics »

Science & Technology ›

Units & Measures

Physics

Chemistry

Engineering

Computational Sciences

Earth Sciences

Materials

Transportation

More Topics »

Society & Culture ›

People

Arts & Media

Dates & Times

Words & Linguistics

Money & Finance

Food & Nutrition

Political Geography

History

More Topics »

Everyday Life ›

Personal Health

Personal Finance

Surprises

Entertainment

Household Science

Household Math

Hobbies

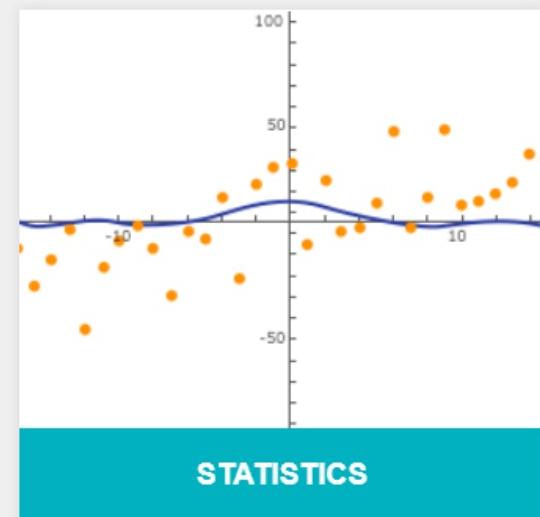
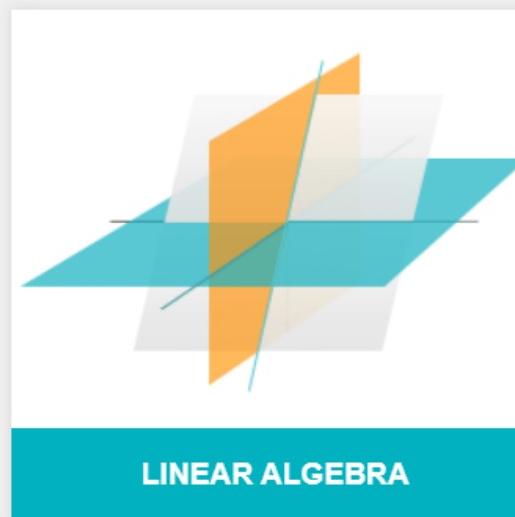
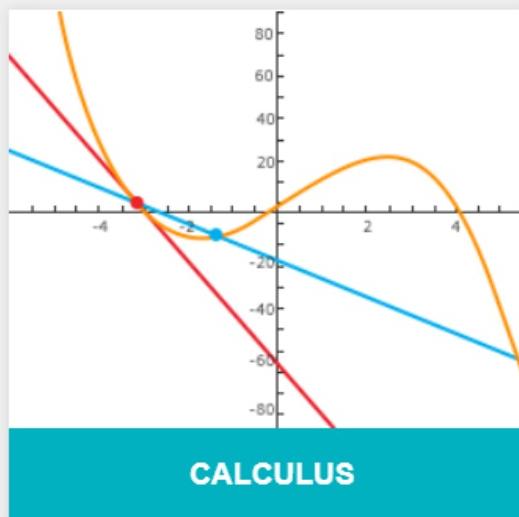
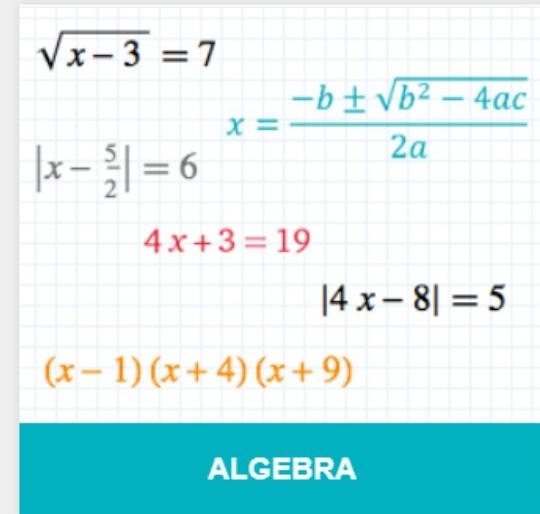
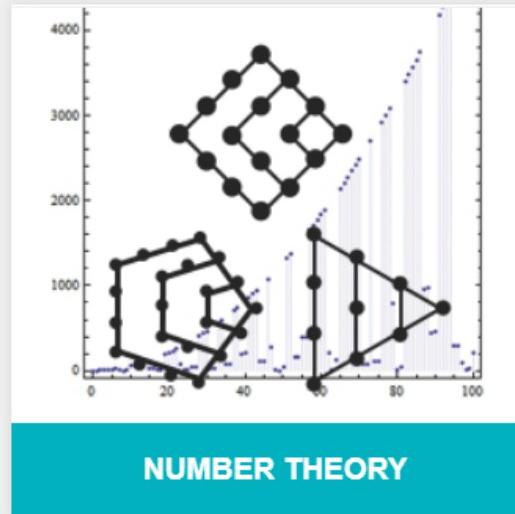
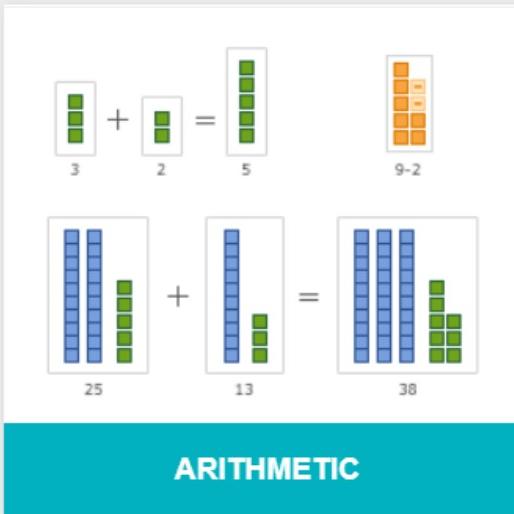
Today's World

More Topics »

Wolfram Problem Generator™

Unlimited AI-generated practice problems and answers

<https://www.wolframalpha.com/problem-generator/?scrollTo=Calculus>



Wolfram Problem Generator™

Home > STATISTICS >

Variance

Difficulty level:

Beginner



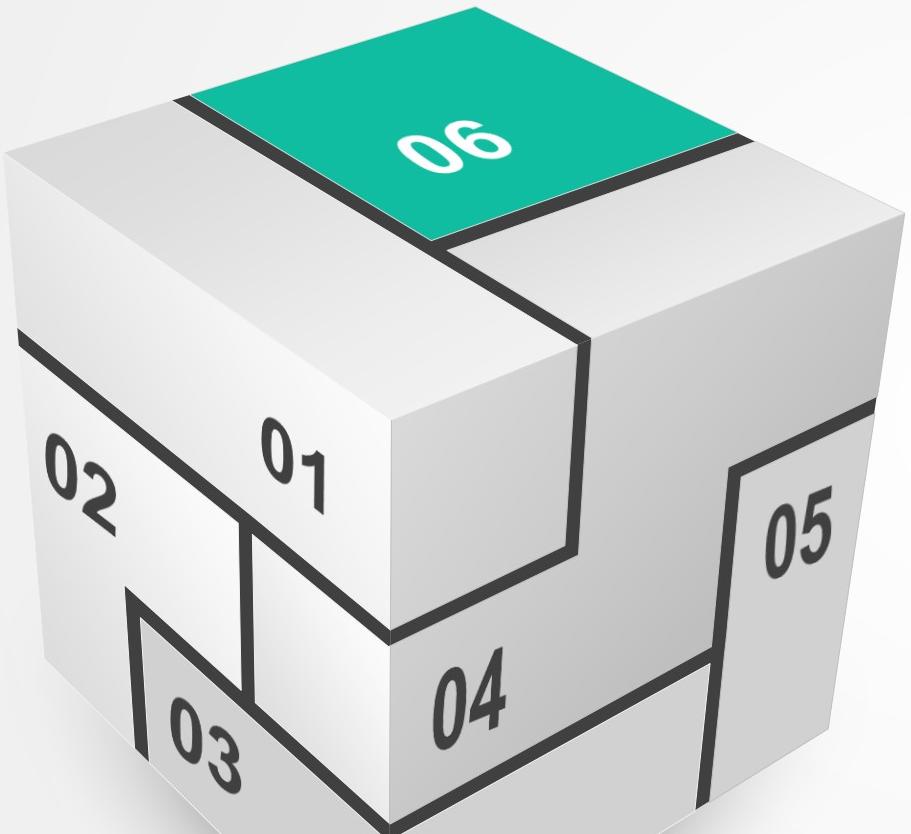
QUESTION 1

What is the population variance of the list (8, 1, 6, 2, 2)?



[Skip this question >>](#)

Paper maps



Paper Network

- Litmaps

Litmaps is a browser-based research platform designed for clarity, comprehensiveness, and collaboration.

- Litmaps
- Connected Paper
- Research Rabbit
- Raxter



CONNECTED
PAPERS

1-Litmaps is a browser-based research platform designed for clarity, comprehensiveness, and collaboration.

<https://www.litmaps.com/>



For Teams

Pricing

About Us

Spotlight

Sign In

Introducing Spotlight — Highlighting good ideas and good research.

[Open Spotlight](#)

Dismiss

Visualize, expand, and communicate your research expertise.

Litmaps is a browser-based research platform designed for clarity, comprehensiveness, and collaboration.



[Intuitive research environment](#)

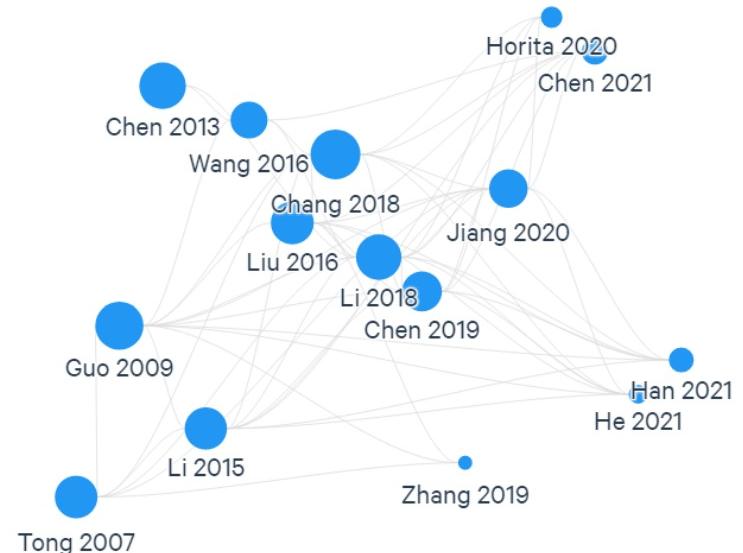


[Citation network exploration tools](#)



[Collaboration tools for teams](#)

[Get started for free](#)



[Generative Makeup Transfer](#)

Kseniya Buraya • ITMO University, Saint Petersburg

Start with Litmaps

Create New Workspace

Image



Name

New Workspace

Description

Enter description...

Collaborators (0)

+ Add collaborator

Just me. This can be changed later.

Create Workspace

Cancel

Start with Litmaps

Create New Workspace

Image



Name

Mathematical Modelling

Description

Mathematical Modelling for Traffic Flow



Collaborators (0)

+ Add collaborator



nader.younus@dpu.edu.krd

Will be invited



Create Workspace

Cancel

Citation network exploration tools

The screenshot displays the Litmaps platform interface. On the left, a sidebar titled "Litmaps" shows "My Workspaces" and a search bar "Search for articles". Under "WORKSPACE", a workspace named "Mathematical Modelling" is selected, indicated by a blue background. Below it, there's a "+ Create Map" button and a note: "This workspace has no maps.". In the center, a large circular graphic says "Home for your research project" and "As you add maps and articles to this workspace, you'll see a visualisation form here." A "Create your first map" button is visible. At the bottom, there's a notes section titled "NOTES Mathematical Modelling" with a text input field "Type here to add notes". On the right, a "Your Workspace" panel for "Mathematical Modelling" is shown, featuring a thumbnail, the workspace name, and options to "Share", "Duplicate", and "Advanced". Below this are sections for "Collaborators (0)", "Hidden Articles (0)", and "Mentions (0)". A vertical timeline at the bottom right shows "TIME" and "CLUSTER" axes.

Litmaps

VISUALISATION

My Workspaces

Search for articles

WORKSPACE

MM Mathematical Modelling

MAPS Selection off

+ Create Map

This workspace has no maps.

Home for your research project

As you add maps and articles to this workspace, you'll see a visualisation form here.

Create your first map

NOTES Mathematical Modelling

Type here to add notes

AM ammar.isam@dpu.edu....

Your Workspace

AM Your Workspace

Mathematical Modelling

Share Duplicate Advanced

Mathematical Modelling for Traffic Flow

Collaborators (0) >

Hidden Articles (0) >

Mentions (0) >

TIME CLUSTER

Citation network exploration tools

The screenshot shows the Litmaps web application interface. At the top left is the logo "Litmaps". To its right are "VISUALISATION" settings and a "Your Workspaces" section. Below these are "My Workspaces" and a search bar. The main area is titled "WORKSPACE" and shows a workspace named "Mathematical Modelling". On the left, there's a sidebar for "MAPS" with a "+ Create Map" button. A message says "This workspace has no maps." In the center, a modal dialog titled "Create Map" is open, listing three options:

- Import from reference manager**: Upload a file with your existing work.
- Generate from a seed article**: Quickly create a map from the top connections to a single article.
- Create a blank map**: Start from scratch.

Citation network exploration tools

The screenshot shows the Litmaps platform interface. At the top, there's a navigation bar with 'Litmaps' logo, 'VISUALISATION' dropdown, and 'Your Workspace' section showing a thumbnail for 'Mathematical Modelling'.

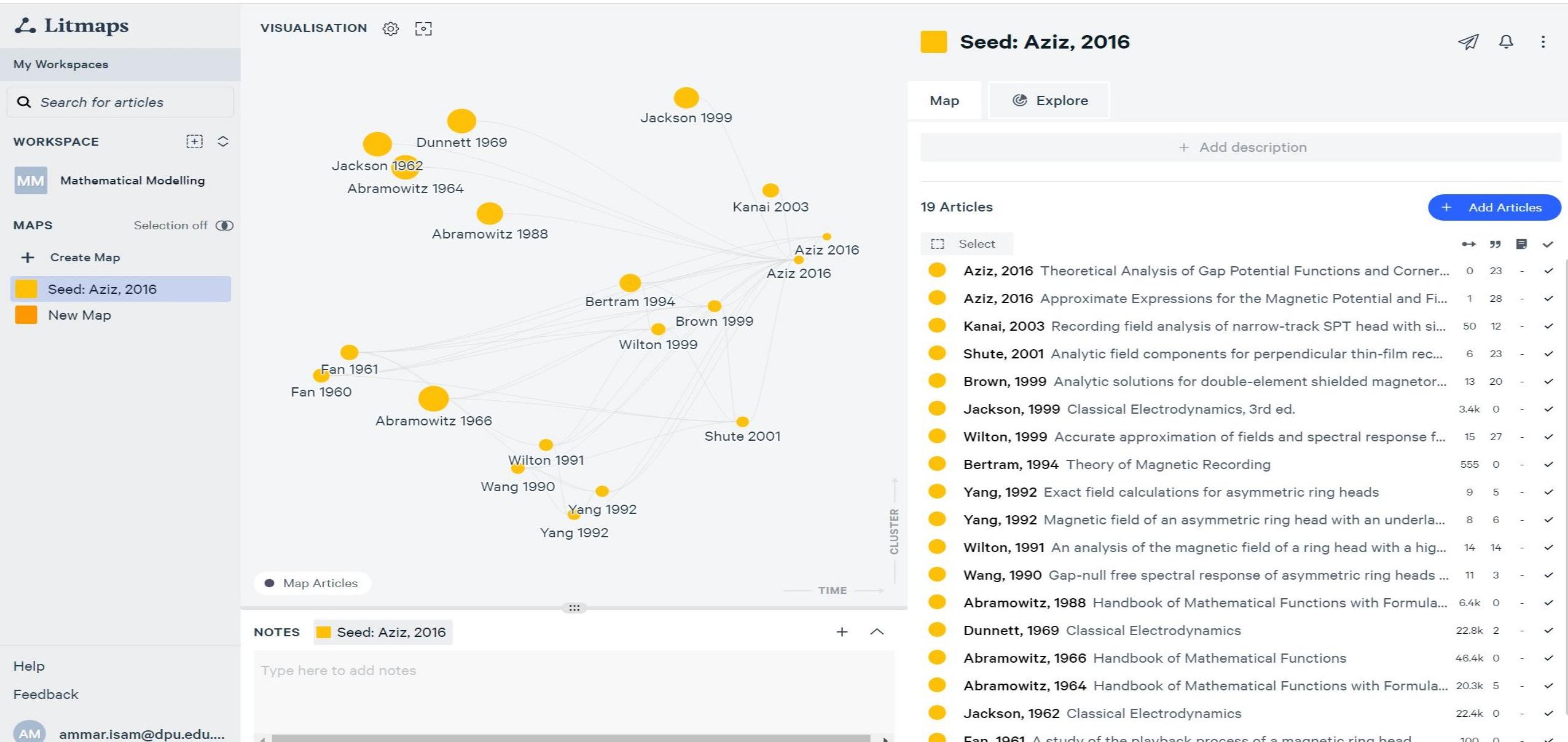
The main workspace area has a sidebar with 'My Workspaces' (Search for articles), 'WORKSPACE' (Mathematical Modelling selected), 'MAPS' (Selection off), and '+ Create Map'. A message says 'This workspace has no maps.'

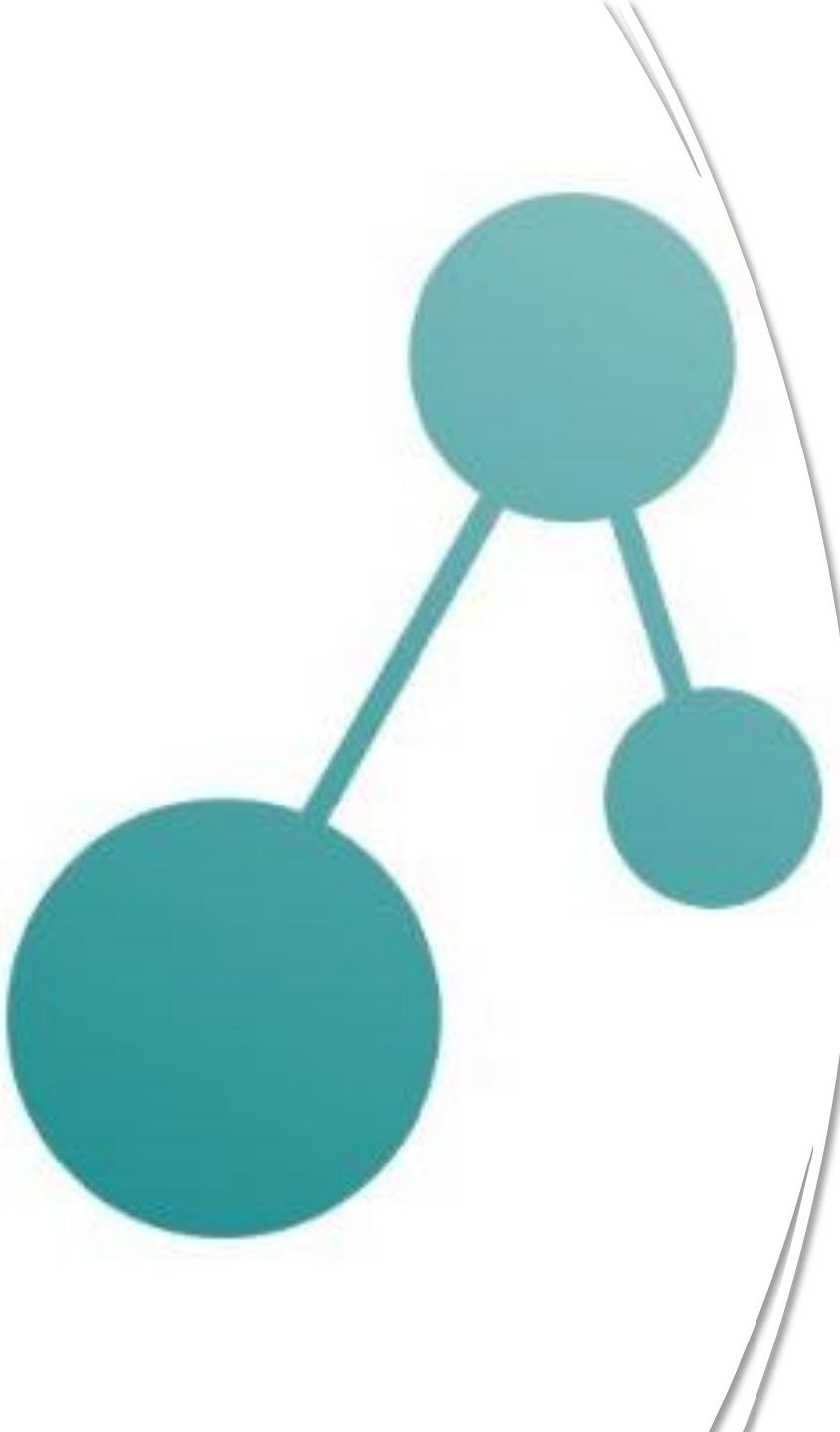
A central modal window titled 'Create Map' offers three options:

- Import from reference manager**: Upload a file with your existing work. Includes a 'Learn how' button and 'Upload BibTeX' and 'Cancel' buttons.
- Generate from a seed article**: Quickly create a map from the top connections to a single article.
- Create a blank map**: Start from scratch.

To the right of the modal, there's a 'Create a Seed Map' section with a search bar ('Search for an article using titles, DOIs, keywords, or authors'), a 'Search' button, and a 'Search tips' button.

Citation network exploration tools





Connected Papers

www.connectedpapers.com/

2- Connected Papers



Explore connected papers in a visual graph

To start, enter a paper identifier

For example "DARTS: Differentiable Architecture Search"

Build a graph

You can try:



Paper DOI



arXiv
Paper URL



Paper Title



Semantic Scholar
Paper URL



PubMed
Paper URL

Or start with one of our example graphs

Title
Or
DOI

Journals & Magazines > IEEE Transactions on Magnetics > Volume: 52 Issue: 2 ?

Approximate Expressions for the Magnetic Potential and Fields of 2-D, Asymmetrical Magnetic Recording Heads

Publisher: IEEE Cite This PDF

Mustafa M. Aziz ; Ammar I. Edress ; C. David Wright All Authors

2 Paper Citations 145 Full Text Views

R Share C Print Bell

Abstract	Abstract: A 2-D asymmetrical magnetic head is characterized by the parallel inclination of the semi-infinite, inner gap walls, and where the gap length and head-to-underlayer separation are small compared with the other dimensions in the head. With head corner inclination, these structures contribute to the reduction in the effective gap length of the head and, therefore, the increase in the field magnitude and narrowing of the field distributions near the acute gap corner. Asymmetrical heads were, therefore, proposed for increasing the writing and readout resolutions in gapped magnetic head structures. There are currently no explicit or approximate analytical solutions for the potential and fields from 2-D asymmetrical magnetic heads. This paper is concerned with the detailed theoretical derivation of relatively simple closed-form approximations for the scalar magnetic potential and fields from 2-D asymmetrical magnetic heads and their Fourier transforms, applicable to any arbitrary corner inclination angle. A general theory based on the translated sine Fourier series is developed to model and study the reaction of a soft magnetic underlayer on the surface potential of any magnetic head structure, and applied to the asymmetrical head. The approximate potential and field expressions derived in this paper demonstrated a very good agreement with the finite-element calculations of the 2-D asymmetrical heads.
Document Sections	
I. Introduction	
II. Surface Potential Approximations	
III. Head Magnetic Fields	
IV. Fourier Transform of Surface Fields	
V. Conclusion	
Show Full Outline ▾	
Authors	Published in: IEEE Transactions on Magnetics (Volume: 52 , Issue: 2, February 2016)
Figures	Article Sequence Number: 3300712
References	Date of Publication: 19 October 2015 ?
Citations	INSPEC Accession Number: 15720318
Keywords	DOI: 10.1109/TMAG.2015.2492947
Metrics	ISSN Information: Publisher: IEEE

I. Introduction
The magnetic head is an integral part of magnetic recording systems. The head geometry and dimensions determine the magnitude and distribution of the fringing gap field, which in turn affects the size and shape of the recorded magnetization pattern in the magnetic medium due to the interaction between the magnetic field and the medium. The performance of the head in readout [1]. The design of magnetic heads, therefore, has a direct impact on the achievable storage density of the magnetic recording systems.

Sign in to Continue Reading

More Like This

Soft magnetic materials for switched reluctance machine:

Finite element analysis and perspective

2014 International Conference on Electrical Sciences and Technologies in Maghreb (CISTEM)

Published: 2014

Finite Element Analysis of Alternating Write-Current-Induced Pole Tip Protrusion in Magnetic Recording Heads

IEEE Transactions on Magnetics

Published: 2007

Show More

Search and build your Paper-Map

CONNECTED PAPERS

New! Premium accounts

Share

Follow

About

Pricing

Sponsors

Log in



Explore connected papers in a visual graph

To start, enter a paper identifier

<https://doi.org/10.1109/TMAG.2015.2492947>

Build a graph



Approximate Expressions for the Magnetic Potential and Fields of 2-D, Asymmetrical Magnetic...



Paper DOI



arXiv
Paper URL



Paper Title



Semantic Scholar
Paper URL



PubMed
Paper URL

Or start with one of our example graphs

Search and build your Paper-Map

CONNECTED PAPERS

Search for a paper...

Share

Follow

About

Pricing

Sponsors

Log in



Approximate Expressions for the Magnetic Potential and Fields of 2-D, Asymmetrical Magnetic Recording Heads

Prior works

Derivative works

Sponsored by Azure

Search... Expand

Origin paper

Approximate Expressions for the Magnetic Potential and Fields of 2-D, Asymmetrical...

M. Aziz, Ammar I. Edress, C. Wright 2016

Approximate Expressions for the Magnetic Potential and Fields of Two-Dimensional,...

M. Aziz, Ammar I. Edress, C. Wright 2015

Theory of symmetry and asymmetry in two-dimensional magnetic recording heads

Edress Mohamed, Ammar Isam 2016

Theoretical Analysis of Gap Potential Functions and Corner Saturation in 2-D, Symmetric...

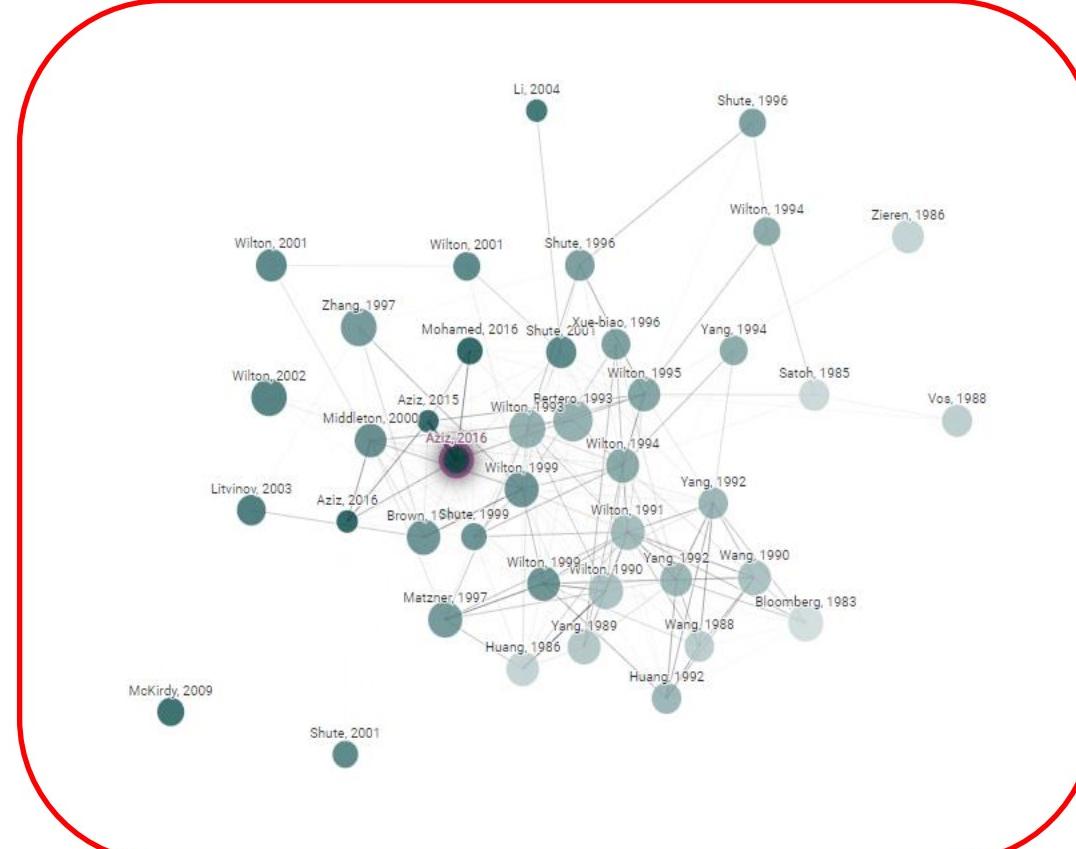
M. Aziz, Ammar I. Edress 2016

A graded magnetization single pole head for perpendicular recording

D. Wilton, D. Mapps, H. Shute 1995

Accuracy of expressions for the magnetic field of a ring head

R. Middleton, M. Aziz, J. Miles 2000



Created on Oct 12 2022

1983

2016

Approximate Expressions for the Magnetic Potential and Fields of 2-D, Asymmetrical Magnetic Recording Heads

M. Aziz, Ammar I. Edress, C. Wright

2016, IEEE Transactions on Magnetics

...

2 Citations

Save

Open in:

A 2-D asymmetrical magnetic head is characterized by the parallel inclination of the semi-infinite, inner gap walls, and where the gap length and head-to-underlayer separation are small compared with the other dimensions in the head. With head corner inclination, these structures contribute to the reduction in the effective gap length of the head and, therefore, the increase in the field magnitude and narrowing of the field distributions near the acute gap corner. Asymmetrical heads were, therefore, proposed for increasing the writing and readout resolutions in gapped magnetic head structures. There are currently no explicit or approximate analytical solutions for the



Research Rabbit

www.researchrabbit.ai

Home page ..



REVIEWS

MISSION



Log In

Reimagine Research

We're rethinking everything:
literature search, alerts, and more

SIGN UP



Start your work ..

The screenshot shows a digital workspace interface with a sidebar on the left and a main content area on the right.

Left Sidebar:

- New Collection** (Icon: red circle with plus, button highlighted with a red border)
- New Category** (Icon: red square with plus)
- Connect to Zotero** (Icon: red 'Z' with plus)
- Uncategorized** (Icon: minus sign)
- + Collection** (Icon: plus sign, button highlighted with a red border)
- No collections*
- Shared with Me** (Icon: minus sign)
- No collections*

Right Side:

- Settings** (Icon: gear)
- Follow** (Icon: bird)
- Help** (Icon: question mark)
- Survey** (Icon: speech bubble)

Add papers ..

The screenshot shows a user interface for managing research papers. On the left, there's a sidebar with options like 'New Collection', 'New Category', and 'Connect to Zotero'. Below that is a list of collections: 'Uncategorized' (with '+ Collection' and '2DMR'), 'Share' (with '2DMR'), and '2DMR' (which is currently selected). A red box highlights the '2DMR' collection and the 'Add Papers' button.

The main area has a 'Filter' section with 'Custom' and checkboxes for 'Abstracts' (unchecked) and 'Comments' (checked). There's also a 'Select All' link. Below the filter is a list item '2DMR' with a red dot next to it. To the right of the list is a 'EXPLORE PAPERS' section with 'Similar Work' and 'Earlier Work' options.

The central part of the screen features a large button labeled 'Choose a Search Provider'.

Two search provider options are displayed:

- Biomedical & Life Sciences** (Powered by PubMed)
- All Subject Areas** (Powered by Semantic Scholar)

At the bottom, there are buttons for 'SHAREABLE LINK' and 'Copy'. A 'EMAIL UPDATES' button with a toggle switch is also present.

[New Collection](#)[Filter](#)[Custom](#)[New Category](#) Abstracts Comments

Approximate Expressions for the Magnetic Potential and Fields of 2-D, Asymmetrical Magnetic Recording Heads

[Search](#)

Biomedical & Life Sciences

[All Subject Areas](#)

Choose Papers to Power ResearchRabbit's Recommendations

Results powered by SemanticScholar

Aziz ... Wright 2016

Approximate Expressions for the Magnetic Potential and Fields of 2-D, Asymmetrical Magnetic Recording Heads

IEEE Transactions on Magnetics

A 2-D asymmetrical magnetic head is characterized by the parallel inclination of the semi-infinite, inner gap walls, and where the gap length and head-to-underlayer separation are small compared with the other dimensions in the head. With head corner inclination, these structures contribute to the reduction in the effective gap length of the head and, therefore, the increase in the field magnitude and narrowing of the field distributions near the acute gap corner. Asymmetrical heads were, therefore, proposed for increasing the writing and readout resolutions in gapped magnetic head structures. There are currently no explicit or approximate analytical solutions for the potential and fields from 2-D asymmetrical magnetic heads. This paper is concerned with the detailed theoretical derivation of relatively simple closed-form approximations for the scalar magnetic potential and fields from 2-D asymmetrical magnetic heads and their Fourier transforms, applicable to any arbitrary corner inclination angle. A general theory based on the translated sine Fourier series is developed to model and study the reaction of a soft magnetic underlayer on the surface potential of any magnetic head structure, and applied to the asymmetrical head. The approximate potential and field expressions derived in this paper demonstrated a very good agreement with the finite-element calculations of the 2-D asymmetrical heads.

[Add to Collection](#)

Aziz ... Wright 2015

Approximate Expressions for the Magnetic Potential and Fields of Two-Dimensional, Asymmetrical Magnetic Recording Heads

The screenshot shows a digital library interface with a sidebar and a main content area.

Left Sidebar:

- New Collection
- New Category
- Connect to Zotero
- Uncategorized
- + Collection
- 2DMR** (selected)
- Shared with Me
- No collections

Main Content Area:

Collection: **2DMR** (by Aziz, Wright, 2016, 1, 2)

Approximate Expressions for the Magnetic Potential and Fields of 2-D, Asymmetrical Magnetic Recording Heads
IEEE Transactions on Magnetics

Add Papers button

Explore Options (highlighted with a red box):

- EXPLORE PAPERS
 - Similar Work (31)
 - All References (26)
 - All Citations (2)
- EXPLORE PEOPLE
 - These Authors (4)
 - Suggested Authors (4)

Other Buttons and Options:

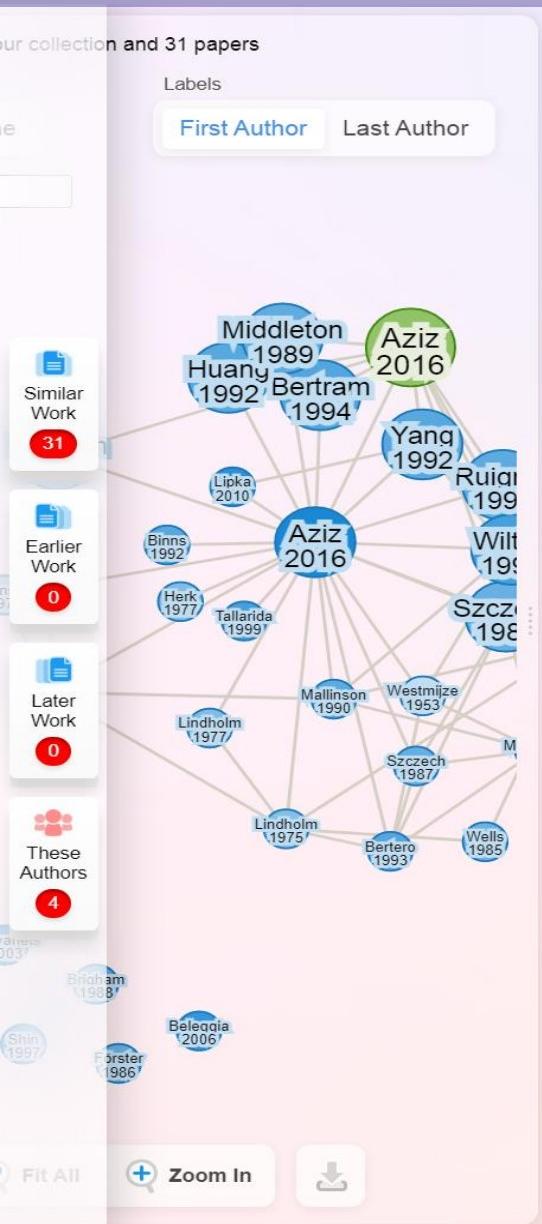
- Linked Content
- EXPORT PAPERS (BibTeX, RIS, CSV)
- PUBLIC COLLECTION (switch off)
- SHAREABLE LINK (Copy button)
- COLLABORATORS (Edit button)
- EMAIL UPDATES (switch on)

Connect ..

The screenshot displays the ResearchGate mobile application interface. On the left, a vertical sidebar shows a summary of the user's activity, including sections for 'Similar Work' (31), 'Earlier Work' (0), 'Later Work' (0), and 'These Authors' (4). The main content area is divided into several panels:

- Selected Paper Panel:** Shows a paper by C. David Wright from 2016. It includes options to 'Remove from' or 'Add to Other Collection'.
- Similar Work Panel:** A list of 31 related papers, such as 'Theory of Magnetic Recording' by Bertram (1994) and 'A table of integrals' by Lipka (2010).
- Network Graph Panel:** A central feature showing 'Connections between your collection and 31 papers'. The graph consists of nodes representing authors and their publication years, connected by lines indicating relationships. Nodes include Bertram (1976), Aziz (2016), Middleton (1989), Huang (1992), Yang (1992), Ruiqian (1999), Wilt (1993), Szczepanek (1987), and many others.
- Explore People Panel:** A green-bordered box containing 'These Authors' (70) and 'Suggested Authors' (177).
- Export Papers Panel:** Options to export the collection in BibTeX, RIS, or CSV format.
- Settings Panel:** Includes 'Settings', 'Follow', 'Help', and 'Survey' buttons.

Connect to authors..



EXPLORE PEOPLE

 These Authors 70

 Linked Content 4

EXPLORE OTHER CONTENT

EXPORT PAPERS

BibTeX RIS CSV

X

These Authors

Filter Relevance

Abstracts Comments [Select All](#)

Mustafa M. Aziz
University of Exeter
69 publications 662 citations

H.N. Bertram
University of California, Los Angeles
188 publications 3687 citations

B.K. Middleton
University of Manchester
87 publications 584 citations

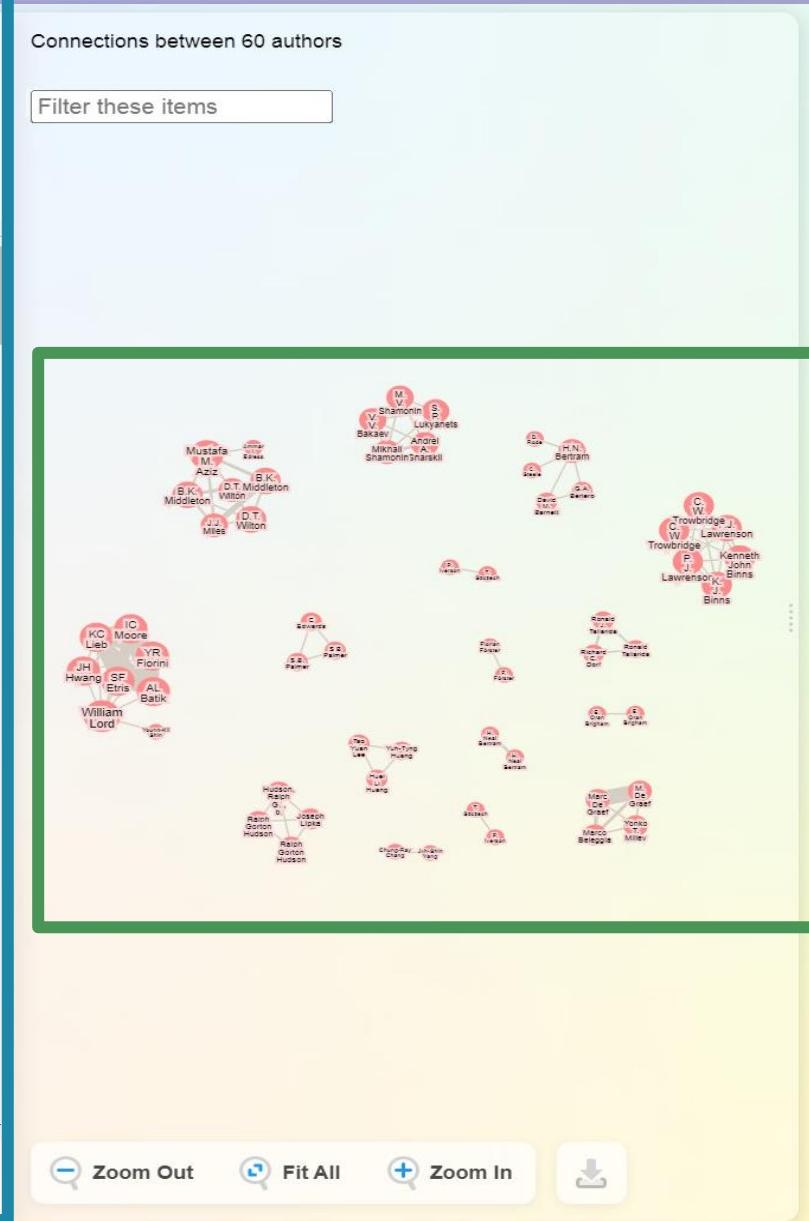
H. Neal Bertram
University of California
96 publications 2858 citations

Ronald J. Tallarida
Temple University
372 publications 16542 citations

Marc De Graef
University of California, Santa Barbara
227 publications 2635 citations

M. De Graef
Carnegie Mellon University
171 publications 3533 citations

 **Connections** Click to Hide





[Get early access](#)
Features Pricing For Teams For Reviewers For Librarians Resources ▾

[Sign up for free](#)

[Sign in](#)

Get the best out of RAx

A smart research assistant that provides a connected workflow for researchers, and helps speed up exploration, organization, analysis, and comprehension of literature.

Scan to join me:



For team

The image displays a screenshot of the RAX software interface for a team project titled "Team V2.1 testing pr...". The interface includes a sidebar with options like "Literature", "Draft", "Suggestions", "Repository", and "Collaborators". The main area shows a list of documents under "Literatures", including "Robust Sentiment Detection on Twitter from Biased and Noisy ...", "Doctoral studies as an initiatory trial: expected and taken...", "rectangle.pdf", and "Interdisciplinarity In Doctoral Dissertation Research: What ...". A modal window titled "ADD LITERATURE" is open on the right. Overlaid on the interface are several cartoon illustrations:

- A man on the left with a beard and glasses, pointing towards the interface.
- A woman on the right with her hands clasped, looking at the interface.
- A person in the foreground holding a tablet with a network diagram.
- A person in the foreground holding a smartphone.
- A person in the foreground holding a document with text and diagrams.

The RAX interface also features a "Search/research activity" section with a line graph showing the number of searches over time, and a "Writing progress" section with a bar chart showing the number of new drafts created and updated.

For Reviewer

It is a one-stop solution for

- Organizing all your reviews in one place

The screenshot shows a user interface for managing reviews. At the top left is a blue icon of a clipboard with a checkmark. To its right is the word "Reviews". On the far right is a blue button with the text "New" and "view" separated by a vertical line. A cursor arrow points to the "view" part of the button.

Below this header, there are two project cards:

- Artificial Intelligence** (2021)
This Project covers all the important and advanced...
Deadline : Dec, 01 2021
<https://easychair.org/NICFD2016/paper.html>
Journal
Last accessed : Jul, 01 2021
- Journal & Scientific Computing** (Delhi, 2021)
This Project covers all the important and advanced...
Deadline : Dec, 01 2021
Submission Portal URL:
Conference
Last accessed : Jun, 04 2021

For Reviewer

It is a one-stop solution for



Organizing all your reviews in one place

The screenshot shows a digital platform designed for managing research reviews. On the left, a vertical sidebar lists several categories: "IEEE A conference key distribu...", "Submissions", "Related Literature" (which is currently selected, indicated by a mouse cursor icon), "Working Notes", "Suggestions", and "Repository". The main content area has a header with tabs for "Literature", "Last accessed", and "Filter". Below this, there is a list of five academic papers, each with a "Summary" button, a "+ Add tags" button, and a small clock icon. The papers are:

- Scholarly Research in Marketing: Exploring the "4 Eras" of Thought Development
- Design Patterns: Elements of Reusable Object-Oriented Software Design Pattern...
- Properties of slag based geopolymers reactive powder concrete
- Quantum attacks on Bitcoin, and how to protect against them
- An Introductory Review of Deep Learning for Prediction Models With Big Data. Fr...

For Reviewer

It is a one-stop solution for

Validating claims of a submission

The screenshot shows a user interface for validating research claims. On the left, a sidebar lists categories: Outline, Research Goal, Research Context, Presumptions in the paper, Approach (with sub-options Possible Originality, Supportive Arguments, Comparison and Adaptation), and Speculations discussed by authors. A mouse cursor is hovering over the 'Possible Originality' link under Approach. The main content area displays three expandable sections: 'Research Goal' (describing the proof-of-work), 'Research Context' (describing the threat from quantum computers), and 'Presumptions in the paper' (mentioning BLISS and NTRU). To the right, a sidebar titled 'Explore Related' lists various resources: Research papers, Related research, Similar research question (BETA), Survey papers (New), Wikipedia, Lectures and videos, Light reads, Institute resources, and Related books.

Submission Summary Key Insights Review

Outline

Research Goal

Research Context

Presumptions in the paper

Approach

Possible Originality

Supportive Arguments

Comparison and Adaptation

Speculations discussed by authors

Research Goal

The proof-of-work cannot be accomplished significantly faster with a quantum computer than with a classical computer.

Hide details

Research Context

The key cryptographic protocols used to secure the internet and financial transactions of today are all susceptible to attack by the development of a sufficiently large quantum computer. One particular area at risk is cryptocurrencies, a market currently worth over 100 billion USD.

Presumptions in the paper

The security of BLISS relies on hardness of the NTRU problem and the assumption

Info Explore Related Attached 1

Research papers

Related research

Similar research question **BETA**

Survey papers **New**

Wikipedia

Lectures and videos

Light reads

Institute resources

Related books

For Reviewer

It is a one-stop solution for



Validating claims of a submission

The authors find that the proof-of-work used by Bitcoin is relatively resistant to substantial speedup by quantum computers in the next 10 years, mainly because specialized ASIC miners are extremely fast compared to the estimated clock speed of near-term quantum computers. On the other hand, the elliptic curve signature scheme used by Bitcoin is much more at risk, and could be completely broken by a quantum computer as early as 2027, by the most optimistic estimates.

Supportive Arguments

The key cryptographic primitives used in modern transactions of today are sufficiently large quantum algorithms. A market currently worth \$100 billion is exposed to Bitcoin, and other cryptocurrencies. The authors find that the proof-of-work used by Bitcoin is relatively resistant to substantial speedup by quantum computers in the next 10 years, mainly because specialized ASIC miners are extremely fast compared to the estimated clock speed of near-term quantum computers. On the other hand, the elliptic curve signature scheme used by Bitcoin is much more at risk, and could be completely broken by a quantum computer as early as 2027, by the most optimistic estimates.

Similar research question BETA

- Survey papers New
- Wikipedia
- Lectures and videos
- Light reads
- Institute resources
- Related books

Screenshot Added

For Reviewer

It is a one-stop solution for



Checking supportive evidence

The screenshot shows a software application window with a blue header bar. The main content area displays a document about ransomware, specifically WannaCry and Petya outbreaks, mentioning various organizations affected. Below this, there's a paragraph about current AV vendor challenges and how machine learning is being used to detect ransomware across different platforms like Windows, OS X, and IoT devices. At the bottom, it notes the significance of ransomware on the cyber threat landscape. To the right of the main content, there's a sidebar titled 'Review' which lists several academic papers related to machine learning and cybersecurity. The sidebar includes titles like '(Battlefield) Things Devices Using Deep Eigenspace Learning', 'Analysis of Machine learning Techniques Used in Behavior-Based Malware Detection', and 'The increase of malware that are exploiting the Internet daily has become a serious threat. The manual heuristic inspection of ma...'. There are also buttons for '+ Add to literature' and 'Screenshot Added'.

In 2017 ransomware achieved global news coverage due to the WannaCry [8] and subsequent Petya [9] outbreaks. Due to the nature of the WannaCry outbreak many high profile global organisations such as the UK National Health Service, Spanish telecommunications company Telefónica, and logistics company Fed-Ex. were subject to severe disruption [6]. The scale of the infection and subsequent media coverage provoked discussion and reaction down from government level through to security vendors, enterprises and domestic audiences.

Current AV vendors that rely on static detection methods are struggling to contain the threat of ransomware due to the daily deployment of new variants, iterations and families. Recent new commercial software products have adopted heuristic detection methods for cyber defence purposes. For example Cybereason use behavioural techniques to protect consumer networks [10]; Darktrace employ advanced unsupervised machine learning for the protection of enterprise networks [11]; MWR have developed RansomFlare "as an effective countermeasure to the increasing threat of ransomware" [12]. Although malware threats and detection techniques are predominantly targeted towards Microsoft Windows systems, machine learning techniques are also applied to other platforms such as OS X [13], Android [14] and IOT (Internet of Things) [15].

Due to its recent significance and effect on the cyber threat landscape [16] this paper focuses on crypto-ransomware affecting Microsoft Windows systems only. It will use static opcode density analysis of crypto-ransomware and benign samples using Support Vector Machine (SVM) to classify them. This will be followed by a detailed analysis of the samples using dynamic analysis.

(Battlefield) Things Devices Using Deep Eigenspace Learning
A. Azmoodeh, A. Dehghanianha, et al. | IEEE Transactions on Sustainable Computing 2017
Internet of Things (IoT) in military settings generally consists of a diverse range of Internet-connected devices and nodes (e.g., medical d... [view more](#)

+ Add to literature

Analysis of Machine learning Techniques Used in Behavior-Based Malware Detection
I. Firdausi, C. Lim, et al. | international conference on advances in computing, control, and telecommunication technologies 2010
The increase of malware that are exploiting the Internet daily has become a serious threat. The manual heuristic inspection of ma...

+ Add to literature

Screenshot Added

For Reviewer

It is a one-stop solution for



Checking supportive evidence

The screenshot shows a software application window with a dark blue header bar. The main content area has a white background. At the top, there are two buttons: "Open Literature" and "Open Key Insights", followed by a close button (X). Below these buttons, the title "Design Patterns: Elements of Reusable Object-Oriented Software Design Patterns Elements of Reusable ..." is displayed, along with the subtitle "Author details can not be extracted | Software Architecture Design Patterns in Java". To the left of the main content, there is a sidebar with several items: "New Conference Key Details...", "References", "Recent Literature", "Working Notes", "New Suggestions", and "Repository". On the right side, there are navigation arrows (left and right) and a "New Literature" button. The main content area is divided into sections. On the left, there is an "Outline" section with a list of topics: "Introduction", "What Is A Design Pattern?", "Design Patterns In Smalltalk", "Mvc", "How Design Patterns Solve Design Problems", "Finding Appropriate Objects", "Determining Object Granularity", and "Specifying Object". On the right, the first topic, "Introduction", is expanded, showing its content: "Experienced object-oriented designers will tell you that a reusable and flexible design is difficult if not impossible to get "right" the first time. Before a design is finished, they usually try to reuse it several times, modifying it each time." Below this, another section is partially visible: "Experienced designers evidently know something inexperienced ones don't. Rather, they reuse solutions that have worked for them in the past. When they find a good solution, they use it again and again. Such experience is part of what makes them experts. Consequently, you'll find recurring patterns of classes and communicating objects in many object-oriented systems." A cursor arrow is visible at the bottom of this text block.



Need more details?

YouTube Tutorial Channel

<https://www.youtube.com/playlist?list=PLeQNr1XWrB0xaDgRN3zgn0ihY9Q1k33p5>

User Guide (Download in PDF format)

<https://www.raxter.io/rax-guide.pdf>

Follow raxter blogs

<https://blog.raxter.io/>

Q&A

When? Why? How? Where? What? Why?
When? Who? Where? When? What? Why?
When? Where? Why? How? Where? What? Why?
When? How? Where? What? Why? When? Where? What? Why?
When? What? Why? How? Where? What? Why? When? Where? What? Why?
When? Who? Where? What? Why? When? Where? What? Why?
When? What? Why? How? Where? What? Why? When? Where? What? Why?
When? Who? Where? What? Why? When? Where? What? Why?
When? What? Why? How? Where? What? Why? When? Where? What? Why?

TFYA
is an abbreviation for
Thanks for your attention

